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<210> 2673

<211> 669

<212> DNA

<213> Homo sapiens

<400> 2673

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<210> 2674

<211> 697

<212> DNA

<213> Homo sapiens

<400> 2674

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gtagctggga ttacaggcat acaccaccac gcccactaa tttttgtat ttttggtang  600
gggggggttc accatgatgg ccangttggt tttgaactcc tgaactcaag tnatctgccc  660
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<210> 2675

<211> 627

<212> DNA

<213> Homo sapiens

<400> 2675

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cctcccactg aagaaacaaa tagataccag gaagaagcta agtaaagcag tggagaagcg  240
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<210> 2676

<211> 799

<212> DNA

<213> Homo sapiens

<400> 2676

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 cggggcgctca cggcgacgtt cgggcgacct gccgagtggc caggctacct cagtcacctg 180
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 aaaaatgaag aactggaaca ctctaccagc aatcaanaag ttgccccaan cccaaaatcc 720
 ctgggggttg gtnattttcc tgttcccccc cggttnatgg aattcctggg caaggtccaa 780
 acccaaccn ccctgcntt 799

<210> 2677

<211> 489

<212> DNA

<213> Homo sapiens

<400> 2677

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ctcggctactg accgagggtt cccagagctg tctcaccatt gcaaaaacgt tatagcaaca  180
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atcnaagtgc ggagagacaa anatggtcct gggagggaan gtggacntan gaacctgttg  480
gtggacgca                                     489
    
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<210> 2678

<211> 768

<212> DNA

<213> Homo sapiens

<400> 2678

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agtgtgcttg ctacaaaacc tctttatgcc aattgcactg gttatcagaa ttatgtaatt  180
taatgaaata gtaccaaata tttcataaac taattaaata tgactacata aaggctcactg  240
cttctttgaa agttcactat tttggaaaag actcaaaatt agtcactaca gaagcatttc  300
tgtcaatgta aatgtgttat gataactata aaaggcgagg gggaatatta taaaatctaa  360
gaggattcta ctcttcataa gcatcttcag ctccgctgac ttcaaagaaa ctagactgga  420
aatcanacct tgttattgga gtgagttgta aaagaaagtc tacatggaat tccaatgggt  480
    
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agatccttat tcagagaact atttgtgcct catcacaggt tagaccggca tgttttgcca 540
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 gcctggaatt atgttcagat gaanaaagga tttgggccgt tattaaaact naacanccac 720
 cnccttaaaa aaaaggaaaa agttttttcc cntttggttt ttaaaaag 768

<210> 2679

<211> 858

<212> DNA

<213> Homo sapiens

<400> 2679

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 cgagcgtctg aagacgtcct cccgagggca gaaggggccg ggggagctgg cgcanggctc 300
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 agggaaccgt tgcccccccc ctcccgggct taaanttttt gntttttttt aaagtttnaa 840
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<210> 2680

<211> 548

<212> DNA

<213> Homo sapiens

<400> 2680

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atggcttcca aggctgatgt attagatgtt gtagtggtt caactgttca gaaagacatg  180
gccattatga ttgaggatga gaaagcttta agagaaactg tccgtaaatt gggagtgtatt  240
gattcggaaa gaatggattt tgagctgttg ccagatgatg aacgtcagtg tgttaaatgc  300
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ctgcatcatg taaaanaatt gtgttcctgt cctccttata aatataaatt gcggtatang  420
tacacnctgg atgatctcta ccctatgatg aatgcattga agcttccaac canaatctta  480
caaccaaatg ggccttgaat gtgaatgaag ctttgagggc aaacatcnac canaanaaaa  540
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<210> 2681

<211> 529

<212> DNA

<213> Homo sapiens

<400> 2681

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cacggctact cggacctga cagcaggag cgggacagg gcggcgccgc ctgcgcagg  180
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cgggacttcg gcttgtggac cacgcccgc gggcccaagg atccgccgc ggggcgcgga  300
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acgtcgtaca gacaggaatt ccaggcttgg actggaatga aaccctccag atccacnaag 480
acggaanccn cccgaatcat cacaaccac acttccggat tggacaaca 529

<210> 2682

<211> 505

<212> DNA

<213> Homo sapiens

<400> 2682

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caggaagatg ggatttaca agaaatagga aatgtttatc attgaccata caaagctggc 120
ttatcttact tgtagaagag tgtttggcag ctgaaacca agggaaagaa aggaattgcg 180
tcattatagg caattcaggc taaatattat actacgtact ccatataccc tcttttttgt 240
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tgaatagctg ggactccagg tgcacgccac aatgcctaata ttctagttn ttgtgnaaca 420
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cctcagntc ccaaatatcc tctac 505

<210> 2683

<211> 571

<212> DNA

<213> Homo sapiens

<400> 2683

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aaatgacact tgccagcaac cggagcctgg cagaaagaaa cttttgtac cagccccagc 300
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 tggtatcact tcttcacgca caaggggcca agattgagga cgacactgag aacatggcag 480
 agaatttctg gatggagaac ttcctctgga ttccttcatt gatgtctttc agagcaaacg 540
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<210> 2684

<211> 567

<212> DNA

<213> Homo sapiens

<400> 2684

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 aatgaagatg aagactgtta ctcaggatga acgatatcag tgctataatc aagagcaaaa 180
 tgatacagag ggtccaaaag acagagaaaa ggatgtcagt gaatattttt atgagaaatc 240
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 aggtttccat cgctgcanaa gatggcactt tagacgatac cttttccgan gaattggaga 480
 agccccgcag tttaacgaaa caagaagaca acctatntgc tnaancctca aaagagcttt 540
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<210> 2685

<211> 690

<212> DNA

<213> Homo sapiens

<400> 2685

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tagcagccag tgttggaata agacatggat ctcgacgta tgggtgtttgt gtaactgtgc 600
anataaatca cagccaggaa ggcaagaagt gnatcaggg acaggatcaa attcccccg 660
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<210> 2686

<211> 608

<212> DNA

<213> Homo sapiens

<400> 2686

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atggtttatg ttgccanca tgintaaaca caacgtctc aaatgctttt taaaaatcta 480
tgaatttgtt agatgtcttc acatcctggg cctcctaccc caattctcaa acacaaanta 540

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ctctgttgcc ctattatant cctgcganaa ttctggctaa ngattaagtt gacngtctaa 600
gcccccaa 608

<210> 2687

<211> 511

<212> DNA

<213> Homo sapiens

<400> 2687

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<210> 2688

<211> 453

<212> DNA

<213> Homo sapiens

<400> 2688

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 agtgcgtgac ggtggagcgc gagctggata aagtgtgca caagttctca ngctacnggc 420
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<210> 2689

<211> 742

<212> DNA

<213> Homo sapiens

<400> 2689

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 aaaaaacttt ntgaatgtta nc 742

<210> 2690

<211> 724

<212> DNA

<213> Homo sapiens

<400> 2690

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 ccen 724

<210> 2691

<211> 563

<212> DNA

<213> Homo sapiens

<400> 2691

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<210> 2692

<211> 754

<212> DNA

<213> Homo sapiens

<400> 2692

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 ntccttanga ataagttttt atatacactg ctaaattgtgt gatgagaatc ataaaacact 660
 aaccantga aggtagctgt gattcacttt ccccnccct aatgaaagac taagccagta 720
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<210> 2693

<211> 653

<212> DNA

<213> Homo sapiens

<400> 2693

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aaatgttttt gtctttgtgg catgcagcta actcctcttt anttttgtct taggggtccag 600
tgatctttat ngggatgcct atttaatggc ttaattttgt tgcntntnaa cca 653
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<210> 2694

<211> 710

<212> DNA

<213> Homo sapiens

<400> 2694

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ccatgggtca ttgttcttct tgtgacaact ganantaaag tggantcttg gttttctctc 600
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attatgcctt ttgcaacggt tatctttttt gtcatgatcc tggatttcta cnttggattc 660
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<210> 2695

<211> 506

<212> DNA

<213> Homo sapiens

<400> 2695

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<210> 2696

<211> 454

<212> DNA

<213> Homo sapiens

<400> 2696

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caagcaggac accatgctga aggccatgtt cagcgggCGC atggaagtgc tcaccgacag 300
tgaaggctgg atcctcattg accgctgtgg gaagcacttt ggtacgatac tcaactacct 360
tcgagacggg gcggtgcctt tacccgagag ccgccgggag atcganganc tgctagcana 420
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<210> 2697

<211> 729

<212> DNA

<213> Homo sapiens

<400> 2697

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caagtgaagt gtcaccactg actaaagaag agaaaactgc ggcagagcaa ttcaaatttc 180
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agaagggcag ataacatatg aataaagttc agccaaaagg atcaaagag aataaaacga 420
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taaanttttag gccaaacatt tgtgttatca tgatatataa tttcnttttg ttaattttga 660
ttgcccntgt ngtnencatta ttgttgaaac tgcttttatg ttacctgttn tccccccca 720
aaacctaaa 729

<210> 2698

<211> 631

<212> DNA

<213> Homo sapiens

<400> 2698

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 gagttaatac agttgtggtg acaacttctg ccccagaggc ttgctggcc tcctgggcga 180
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 ccacagagtt tctggtgcag gtctagggca ggacctgagc atttatttgc atttcttttt 420
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 ggcatgatct cagctcaccg caacctccac ctcccaggtt caagcaattc tcctgcctca 540
 nccttcctga ntncgtggat tacaggcatt ttnccaccat gcccggttaa tgttgtgtt 600
 ttantaataaa tggggtttct ccatgttggt c 631

<210> 2699

<211> 742

<212> DNA

<213> Homo sapiens

<400> 2699

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 gtgccaggag aaacaagttg attatgagat caatgccac aaatactgga atgacttcta 240
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 caatgacccg ggactctttg ttattgtctg tgatttttct tccacagcta ttagaactgg 660
 tccaaacaaa ttcnaaatat gatcctnctc cgggtgtttt gcctttgttc cccaacctgt 720
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<210> 2700

<211> 560

<212> DNA

<213> Homo sapiens

<400> 2700

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 tccagccggc ccccatgtgg acccagggat acagcctgca ccacttggca cacagggaat 420
 tcactcanca accccaatca acacacaagg gcttcagcct gcacctatgg gtactcanca 480
 acctcagcct gaaggaaaaa ttcancantg gtgttggcan atggaccaca attgtggcca 540
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<210> 2701

<211> 773

<212> DNA

<213> Homo sapiens

<400> 2701

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 caaatttttaa ttgaattaca tggatgact tcnnaacgcc agttctggac agtgtctaata 720
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<210> 2702

<211> 484

<212> DNA

<213> Homo sapiens

<400> 2702

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 ggagccgct tctgaagggc acgtcgtgc aaagcaccat cctgggcgtc atccccaaaca 240
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 caggcctatg ccgtttccag attgtacagg tcttaaaaga naaccatata ccattgctga 420
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<210> 2703

<211> 696

<212> DNA

<213> Homo sapiens

<400> 2703

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tctgaaggag aaccattggt tgctggggga agtgccattc tcaaagagga gaatctttca  180
gaagattcta agagcteate actaaattca ggaaattatt tgaatcctgc ctgtagaaat  240
cctatgtata ttcatacttc agtctcccag gatttttctc gaagtgtgcc aggcaccaca  300
agttcaccac tagttgggga catatcccc aagagcagtc cccatgaagt taaattccaa  360
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naacagttcc cataaaaata ttttatcana attgcaaaac tgtntaaca ntttcaatcc  660
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<210> 2704

<211> 525

<212> DNA

<213> Homo sapiens

<400> 2704

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gctggcactc ttgccttccc cgtccctcat ggcgtgctc cgacgcccga cgggtgtccag  180
tgatttggan aatattgaca cagganttaa ttctaaagtt aagaatcatg tnactattag  240

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gcgaactgtt ttagaagaaa ttggaaatag anttacaacc agancagcac aagtngctaa 300
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 actgaaacct actgcttctg tcaaaccagt acagatggaa aagttggntc caaagggtcc 420
 ttctcccaca cctgaagatg tctccatgaa ngaagaaaat ctctgccaaag ctttttctga 480
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<210> 2705

<211> 780

<212> DNA

<213> Homo sapiens

<400> 2705

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 aatctgggga actcctttta agtctggggg ctgacacccc ctccctgttt gacgggcccc 720
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<210> 2706

<211> 512

<212> DNA

<213> Homo sapiens

<400> 2706

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accaatttct ctgagtttct tgaaatgtct ttaaaacaga cttttttctc accaaacagt   60
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ttatatatag aagtttaaaa ataaaccagg tcaggtttgt atatgtaaaa ttgttgacat  180
caatgatgtc tttccatatt cttatctggg ctttaagaaat acattctgta tttttccaga  240
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<210> 2707

<211> 355

<212> DNA

<213> Homo sapiens

<400> 2707

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aggatgaggg tgaggagaag tatgaggtgg tgaaactcaa gatcccatg gacaacaagg  180
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ctgcagcctt gaactcttgg gctcaagtga tcctccttcc tcggcctacc aagttgttgg  300
gactacaagt gcacccacc acacctggct aatttttcac tttttgttna nacga       355

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<210> 2708

<211> 746

<212> DNA

<213> Homo sapiens

<400> 2708

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gttttcccg attttgagtc tgaaaaaaa aaaggttatt ttgccanaac cttccaattt 720
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<210> 2709

<211> 620

<212> DNA

<213> Homo sapiens

<400> 2709

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ggaacgaaac cttctgtctg tggcctacaa gaacgttgtg ggggcacgcc gctcttctg 360
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gagggtcatc agtagcattg agcagaagac atctgcacac ggcaatgaga agaagattga 420
 gatgggccgt gcgttccggg agaagataga taaggagttg gaggctgtgt gcccggatgt 480
 gctgagcctg ctggataact acctgatcaa gaattgcagc gagaccact acgagagcaa 540
 agtgttctac ctgaagatga aaagggacta ctaccnctac ctggctgaaa atggcccccg 600
 gaanaaaaaa agggcnacgg 620

<210> 2710

<211> 833

<212> DNA

<213> Homo sapiens

<400> 2710

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 aaagaatact aattcatttt atcactttca ttggtaaaac ttttaaattc aacacctgaa 180
 aatcatgagg gaaaatgatt acctcttgag atatattatt gatgacattt aaagggaaaa 240
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 tgttttccta ttgaaaaaca attaccctgg ttacattctc caaaagaatc tcccaaata 780
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<210> 2711

<211> 829

<212> DNA

<213> Homo sapiens

<400> 2711

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gaaattgttt atgcagttga cttcnaccac aaganggaga tccatttaaa tggatgttcc  480
ctggaaatgc taagcaggcc ttcctactt atcacagatt cattcaatgc tacatatgtt  540
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cttcttgatc anatttgga ggactaaaga tgcaggattg ggtgtttact cctttggcac  720
tcctaaatta atgtcagttt accaatgntg ggtggaagtt ttcctaagtt cccnngttna  780
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<210> 2712

<211> 715

<212> DNA

<213> Homo sapiens

<400> 2712

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cagagccttg gcaagctctc ggtcagagcc agcttgctgt gtgcacattt ggctcatctc  180
cccggcggat ggcagttgca cagtcatccc gctgatcttc anagtgttgg aaggcttcgg  240

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ggctgaggtg gaaaaaggta acattgattt atgtatctct ttctctgggc atctctatat 300
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 gggaaagggg aaatctcaca gggcagaana aatgtccggc attttttgtt tatgaaagaa 420
 gatacgaatt aactcattta aaagtttgtt tcttaaaaga caaatacaca tcccaaagt 480
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 tcctgaacgg gttccgtctc ctgctctanc ttgaacagct tcaaataaaa ttctggttat 660
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<210> 2713

<211> 749

<212> DNA

<213> Homo sapiens

<400> 2713

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 tttttccttg tggatcatcca ggaggtgatc aattacatgt gcacagtgct aggacgggag 180
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 aagatgagag ggggcttcca gagtcaatga acgtcacctt tcagccgacg gataccggga 420
 gcgcttgggc aaaacagcag anaaagaaag actgtggtcg gggaagtgga atgcttcgat 480
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<210> 2714

<211> 819

<212> DNA

<213> Homo sapiens

<400> 2714

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aatgaatgaa atgttctctt tctattccag ggattgcagt ggcaaagcta ggctagggtct  300
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gataacaagc aaaagaaaac cangcaacac catattaaag aagaaaacaa tcaactctga  660
aatccactta gaaataatgt ttcatc aaa ataaggctct tgctttaaga aattgttacc  720
tggcttgcac cnttcctaaa aactcctatc gtctgttttc caaaccccaa nggaaggaac  780
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<210> 2715

<211> 736

<212> DNA

<213> Homo sapiens

<400> 2715

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ggctccgttc tcctcgaag cactcccccc agctccatga atggaaatcg gctccgcagg  120
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acccgctggg gccagcccc tactcatggt gccagaaga cctggctatg gcgcatggg 180
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 tggaaaaaga agtctttaca ccgccaatcc acttcctgtg gcaactacag gggtagattt 420
 agacgttact ttacctgggg aaggtggaaa agatcgacct ttcaaggtgt caatcaaatt 480
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 tacgacatct gccctccatg aaatacacac ctgtggggcg tcatttttct ccgctccaga 660
 aangatatta ccaccctctn ggaagggggc agggaaattt tggtttgat tcatcantct 720
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<210> 2716

<211> 664

<212> DNA

<213> Homo sapiens

<400> 2716

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 gagcgttaca tgacccaga agactttgtt cagcgtatc ttggactgta taatgatcca 180
 aatagtaacc caaagatcgt gcagctcttg gcaggagtag ctgatcaaac caaggatggg 240
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 gtcaaaaaaa tttttggaca gactattatt catcatcata tcccttttaa ctgggattgt 420
 gaatttatcc gactgcattt tgggcataac cggaagaagc atcttaacta cacagaattc 480
 acgcagtttc tccaggantc gcaattggaa catgcaagac aagcctttgc actcaaagac 540
 aaaaancaaaa gtggcatgat ttctgggtctg gatttcagt acatcatggt taccattaga 600
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tctc

664

<210> 2717

<211> 684

<212> DNA

<213> Homo sapiens

<400> 2717

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gctcctttga tatctgaacc tctgttatgg gcttctctga gacaagtaaa tgtcaggtgc 120
aagatctgga tactaacagt ttcagtttgg gaaatccaag aaaaagaatt atcaagtttg 180
ataggggaagc tctgtagcct tgactccagc aagaagaaaa ggtcaaaacc acgtgtttcc 240
caaaagtcca gactacaatg attcagctga cttgaggaca aggcctagca tttggctgag 300
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aactatgcat gatttctcaa acttcaagat tcatgtctgg atgtattatg ctgtggatat 480
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tgtgacttgg tccttaagtc aggtcactat ctgcctccca ccctgggggc aggactgaag 600
tatanaaaaa catcntggct gttcaggaag ctgtggtttg aaaactganc ccanaaggc 660
actttcactg ncctccatta atgt 684
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<210> 2718

<211> 588

<212> DNA

<213> Homo sapiens

<400> 2718

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ggggagacac ttaagggaaa ttaaactgca gagtgaaga natgcctcag tcaagtcagc 180
 caaaaacacg cgggtcatcc ccaagcccca ganaggcttt gaattgaagg cgantgcctc 240
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 ccgacaaaat ggatttggat ctactggacc tgaatccac aattattgct gcaattaaga 360
 aagccaaact gaaatcggt aaggangttt tacacttttc tggaccagac ttgaaganac 420
 tgaccaacct ctccagcccc gangtctggc acttgctgag aacggctcct tacacttgcg 480
 gggaaacaac atccttacag cactgcagct gcaccancag aaagaacggt tccccacgca 540
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<210> 2719

<211> 659

<212> DNA

<213> Homo sapiens

<400> 2719

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 ccgagcggcg ctaccaaaaa cagctggggc tggaggccac gtactttttg gggatcctga 180
 aagccaaggg gaccctgcga ccacctgagc gccaggccct gtttggtcc tgggagctca 240
 tctacggcgc cagccaggag ctgcttcctt acctggaaag angatgctgg ggccaagggc 300
 tggagggctt ctgccgccac ttggagctct ataaccaatt tgctgccaac tcagagaggt 360
 cccanaccac cctgcaggag cagctaaana aaaataaagg tttccggang tttgtacggc 420
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 caacggctcc agcagtatga naatctcgtc ctanctttgg ctgaaaacac aggtcccaac 540
 agccctgacc atcaacaagc tcacacctgt ccttccctca tgaanaacta ctgcttatgt 600
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<210> 2720

<211> 590

<212> DNA

<213> Homo sapiens

<400> 2720

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gcccactttt ctttcttcc ttcttatttt gttatgctgg cagccatttg cccctgcatg 480
gtatgggata aaanangana gccttccctc cctcaccttc tccaaatcta ggtgaaatca 540
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<210> 2721

<211> 688

<212> DNA

<213> Homo sapiens

<400> 2721

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gagctggggc cgtggcctgg cctgggtgagc ggctatacgc tgctgggtgg gcctccactc 540
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gggccggatc ctggaacccc nggccctnct gtcnggttcc caacttcacc tgggtctcct 660
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<210> 2722

<211> 894

<212> DNA

<213> Homo sapiens

<400> 2722

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cgcatccccc tcagtcgctg tgagcggtat ggatcatgta aaaagtcttg tattgcatct 180
cgtgacccgt attgtggctg gtttaagccag ggatcctgtg gtggagtgcac ccagggatg 240
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caatggaaat actaaatccc atgggtaatg gaccatcnaa nggccacccc ccaaaattng 720
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gggcatgaa aaaaccccct ccagaaaaan ggcccntggn ccttggaac ttccaaagga 840
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<210> 2723

<211> 618

<212> DNA

<213> Homo sapiens

<400> 2723

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tgaugentac ctccccca 618
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<210> 2724

<211> 647

<212> DNA

<213> Homo sapiens

<400> 2724

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 tgtgatgaca gtaaacgcac ttatttacag actaatggaa aantcatttt acctggggcg 600
 aaaatacccc naatcncnaa cttgaaagaa aggaaaacna gtttgtc 647

<210> 2725

<211> 570

<212> DNA

<213> Homo sapiens

<400> 2725

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<210> 2726

<211> 623

<212> DNA

<213> Homo sapiens

<400> 2726

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gactacttca tcctcatcct gcaggggaag gtggaggtgg aggcagggaa nganaacatg 180
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<210> 2727

<211> 649

<212> DNA

<213> Homo sapiens

<400> 2727

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<210> 2728

<211> 756

<212> DNA

<213> Homo sapiens

<400> 2728

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aggcatttga aggagaatac cctaaattat tacgtcttta taatgactta tggaagcgtc 180
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ttgcccgaat cattaacaaa ngttgtttcc antcagancf cattcccact gggcagcttn 720
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<210> 2729

<211> 590

<212> DNA

<213> Homo sapiens

<400> 2729

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gaaaagggat tctccctgct gtcacagaat tgtgaatttg ctggcaattc tgaaggcatc 180
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ctgctagttc cagctttcac tgtgaccggc aatggttctc aatctggcaa taagctggca 240
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aacttgtgaa tatactactt tacttggcca aagggatttg canatatgat taaggttatg 480
aaccttaaaa cggggacatt atcctgtatt atccanaang gtccagtgtg atcttatgag 540
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<210> 2730

<211> 679

<212> DNA

<213> Homo sapiens

<400> 2730

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caccacact tcagaaagaa attttggcgc taattccaaa ccagaatgct cttctaaagg 360
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ctgcaggatt tattatctcc tgatatgcct ttaaaattag tctttgtagt tctatcatta 600
acatctaata tagttctgaa gactgttttt ancanttgnc anatctagga aaactaacgt 660
ttatattgct gtnatctat 679

<210> 2731

<211> 626

<212> DNA

<213> Homo sapiens

<400> 2731

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tgtgttgagg gaagatacga agtcgcggga gcagttgggg actcaatgtg tgggcaacaa 180
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cctccagggt ggcttgcctca tgggctacag ccagcaggg ggggcgacat cccccggggt 540
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ctctgaagaa aaagggccan cccctc 626

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<210> 2732

<211> 675

<212> DNA

<213> Homo sapiens

<400> 2732

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aaaagaaaa agagagtatt aaaatttctc attgtaaaat ctatatTTta gaatcactct 60
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gttctttttt tttganacag ggtcttgctc tgtcgcccag gctggagtgc agtggcgtga 180
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ganatgcggg tctcactgtt ttccangctg gtctcaaatt cctgggctca agtgatcctc 360
ccacttcagc ctcacattgt tgggattaca gtcacnaacc actgtnccca tccatatgtc 420

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attctttana cacactactt actaaatttc tctttttaaa gggatatact gaatttccgg 480
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 aancaatcta gaacttaacc tttaaatggc tttattaaag aaatccccta tgaaaatcnt 600
 gcaaaatgat tatttacnaa cnatcctacc cagcacataa naaattcctc ctcnattctg 660
 aaataccatc ttctc 675

<210> 2733

<211> 466

<212> DNA

<213> Homo sapiens

<400> 2733

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 gttaaacgta actgcaattc ttcttatagc actggttccc tattcttcag tactgcagag 180
 tgaaagggca gatgaaaact tttacagtcc aactttattt aaaaacctta agtacaaatc 240
 aggggtgattt gcaaagccat ctcagcagaa gtcaatgtag ccattccctg atggttggct 300
 cttttcttcc tgttgtgaa attcctatct agtaagcatt gagcacggaa cgaggctctgg 360
 ctgggcttgt ccaggancct tgtgagggtg catcacagaa tggggctgtg tgatcatcca 420
 antgtganan caagggtcgg tganctgcct gtattgccccg tgcaga 466

<210> 2734

<211> 605

<212> DNA

<213> Homo sapiens

<400> 2734

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gttctgaggc tgggctggga naccgtgggg ctgtgaggag cgcatanaac cgtggtggag 180
 ggCgaggctg ggccaccggt tcttcaagct cggaatggag ggggaagagc gcagagggct 240
 ggctgggagg aactcgggtg ggCgtgaagg agacgagggc nagaaaagaa acttcccttc 300
 ttccaggaag ggtcttcgaa accctctccc cacagcccct ctcgtcatta gcatggcaat 360
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 cggaagagcc gggggcggcc gggctcttct tccccacctt ccctctctcg tcgctctccg 480
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 cccac 605

<210> 2735

<211> 738

<212> DNA

<213> Homo sapiens

<400> 2735

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 aaaatttctc ttcaacctat agcaactgtt cccaatggag gcacaacacc taaaatcagc 180
 aaaactgtac ttttatctac taaaagcatg aaaaagggtc atgaacatgg atccaagaaa 240
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 cctagtcatc attttatgcc aggaagtcct accaagactg tgncaaaaa accccaggaa 360
 aagaaagggt gtnaatgtgg gcgtgctact caaaatccaa gtgttcttac atgccgaggc 420
 caacgctgcc cttgctactc taaccgcaa gcctgcttag attgtatatg tcgtggctgc 480
 caaaactcct atatggccaa tgggganaaa aactggaggc atttgccgtg ccanaaaagg 540
 cttggagcag accangctca ctttgggcat taacgtgact ancattgctg tgcgtaacgc 600
 tagtaccagc accagtgtaa taaatgtcac agggctccca ntaacgacnt ttttagctgc 660
 cagtacacat natgataaaa atttgatga aactatnaca tganatccac tgtttaaatc 720
 cgtgggtctt ttaaaacc 738

<210> 2736

<211> 622

<212> DNA

<213> Homo sapiens

<400> 2736

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gtctgggaag tgccatggta aatagtcaca caggccagat gagagactga ggtgtgcatg   180
ttctgtggga ggggaagtgt agcctgcggg tgtggaatgg tctgggtggc cgtgggaaac   240
gtgganagag ccctggaaac agccccgctt tgtgccagtg aggagtcggg gaagcagctg   300
gggagacggg gctggagagc ctggggagag gggaagctct tctggaggga gtgggtgcac   360
cggcgcactg cgcagcctcc tagtaaaggg cctgcagacc cagctggcct catgcctgga   420
ggccttangc gactctgang aaggcagttc cagaacagtg agtcaggacc agatgcagtg   480
ggttgcaagt agaaccagga ncaganactg gatgtggtgt attgtttcan aaccttccan   540
cgtgagtact accatatgga taccttagcg tgggaagcgc ccaggccacc cccggtccgg   600
gtnanaaaaa gcccanaact ca                                           622

```

<210> 2737

<211> 661

<212> DNA

<213> Homo sapiens

<400> 2737

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ctgttgtgtc cgttttgaag gtcgggtggg tagactggct ggccttctag ggggtgtggag   180
acttcccaac tctgcccttg tgctttcctg gaatcccaa tatgcccgga ccccggttta   240

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ctcctttgct gcgagccctt ctctcccgct cagagttgct ccgagcctat ctgctcagtc 300
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 gcacccatgg gttctcgctc caatgcttct ttcctccttg gggcgtaact cagaccctgg 420
 gcacccctct ccaactgcca ggggagacct gggttctaga tttggctctg cctctactat 480
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 tcagccccta atcctggggg actttactct gtaccgcctc cttaccacgc cttgtgcacn 600
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 a 661

<210> 2738

<211> 715

<212> DNA

<213> Homo sapiens

<400> 2738

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 ttcctctgaa cgcctatgaa gatgatgttg atcctgaaac actaagctac gctgggcagt 180
 atcctttctg aaacagaatg gtagaatttg tgcatttttc ttcaatattt ttatggatgat 240
 ttttttgtga ggcatttagt aaaaagcttg cacattattt tttgctctct tttttatagt 300
 gaaatctgta tattgttcat tttaaattacc atgctagtga aaattgagaa caactttttg 360
 tttataaacc cgaggctcat ccactatgca tcctgattac ttagattgac tgacagaagc 420
 atgcacaggg tccgtcactt acggtacaca ttccaaaggt ggctcttgag aggacctcct 480
 cgtggcaagc aagctcgact tatcaggaag ancattcttg gcatttgagt gcacaggag 540
 aagatgccct tcccatagcc actggccatg ttcattgcagg ctgatgcaga nccctgantc 600
 acttaagtgg tggctaagac tttccctctt gtttccctta agggaaggaa tcagtgatgg 660
 gcctgggncc ttgtcaaaaa anaccaactc ctgcggaaga cagatngana ctanc 715

<210> 2739

<211> 755

<212> DNA

<213> Homo sapiens

<400> 2739

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atagggaaaa tattgccagc gttttcagtc attctgtgca tgctgcttta agcaagagat   60
ttatatattgt tgagaggaaa tattgctact tcctgcactt ccaccctctg cagccggcac  120
cgtccctact gttgccatta attggagctg tccttaagat ggtcaccata ttcttattca  180
ggctgttgtc attttcccca gagatggttt gtttaacgaa tgataggctc tgtgcctggg  240
gatgttagca gactctgggg tttgtacagt gatgccttct ccctggccca gagctgaata  300
ttcatctaga attaaagttg gatttgatat acaaatttc tttctataca ggttttacat  360
aagagagaca gtaataatgt caaggatagc ctgtgtgggc agaaattggt agtcgtgctt  420
ttgaatgtca gctgtagagc caactctgat tatctagcca ttgatcatac aaattgatag  480
aaacattagt cagtaatttt agcttcttgc caaattgttc acaacatcta aatgtaatgg  540
tgatgtgatg aanataagta gtacaaagan accaaaataa tttggggaga attangaatg  600
atgacaattt tttttaacaa cttacctcta ataaggttac ttgggatgaa ccaactcanc  660
ttccttccca tggatangaa aggactctgt gntttattcc ngtttattgg cacaaaaata  720
cttgttttta aanttccctg aaaaaccctt gatgg                                     755

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<210> 2740

<211> 804

<212> DNA

<213> Homo sapiens

<400> 2740

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ttctgaacaa gagcctaaat ttccttgtaa agaatgggac ccaaatttac cttcattgtg  180
tcttccaaat cctgaatatt tggctcctga atacatactt tctgtgagct gtgaaacagc  240

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cagtgatatg tattcttttag gaactgttat gtatgctgta tttataaag ggaaacctat 300
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 tcgttttagga tctagttcac ttacaaatat acctgaggaa gttcgtgaac atgtaaagct 420
 actgttaaata gtnactccga ctgtnagacc agacgcagat caaatgacaa agattccctt 480
 ctttgatgat gttggtgcag taacactgca atattttgat accttattcc aaagagataa 540
 tcttcagaaa tcacagtttt tcaaaggact gctaaagggt ctaccaaacc tgcccaagcg 600
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 tancctttgt ttgcccatt gttctactta ttggctgaag gaatgcccc aaanaanaat 720
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<210> 2741

<211> 652

<212> DNA

<213> Homo sapiens

<400> 2741

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 gaanagcttg gggcctgcct ggtcctcggc cacggtgggg ctggggcctg tgactgcgtg 180
 tgcagagggt ccgcgcccag ggcccgggaa aggggctgcg ctgccccgag cgantccccg 240
 ggcgccccca gcctgtgca gccacctgg gctccacatt tcggccccct ctcctctccg 300
 ctgctctggg ctcanccacc aagctccag ctgtgggcag aatccactgg ggcgcangaa 360
 acctcagctt ccgcagccca cctggccttc gcagtcttcc tctccagggt tttatttcaa 420
 catggccttt tctgctgcga ctcaactgtg gtangggcca agtttgggtg tgtgaagcca 480
 nggaagtgcg ttgtgttctc ncggaaaaaa aaaacgcanc ganggaccg ggcacacgga 540
 ccagctcacc aaccgcagcc aaaccaccaa ttctgtcccg tggcccttg gtgaacggtg 600
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<210> 2742

<211> 610

<212> DNA

<213> Homo sapiens

<400> 2742

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ctacttttca accaggtcac tagcccttga ctctcttat caaacttccg gaactgccac 180
cccaccagtg actccacagg caccagggca tgcaacaggg ctgggacagg aaggctctct 240
tcttcacctc aagcctgctg ggctaacact tgcgattttt actanagtta actttgtaat 300
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gctcttctct gacctgaaca atggctgtng ctgtggacca acaaattccag actccttcag 480
tacaagatct ccaaatagtt aaactggaag aagattccca ctgggagcag gaaatttccc 540
ttcnagggaa ttaccctgga ccanaanacat cctgccagan cttttggcat ttccgttacc 600
aagaancatc 610
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<210> 2743

<211> 857

<212> DNA

<213> Homo sapiens

<400> 2743

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aggttccaag gaggggaaggc gttcggcttg ctcaaagccc ggcaggagag gaggtggcc 180
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aagctcacag ccttcaaaga gaagtacatg gagtttgacc tgaacaatga aggcgagatt 300
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gacctgatgt ctttaaagag gatgatggag aagcttggtg tccccaagac ccacctggag 360
 atgaagaaga tgatctcaca ggtgacagga ggggtcagtg acactatata ctaccgagac 420
 tttgttgaac atgatgctgg ggaaacggtc ggctgtcctc aanttagtca tgatgtttga 480
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 ctttaaaagg ggctctgggt tccggggaat cctgaacctt ggggttccct cctctcttct 780
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 aaagggggca gggcccc 857

<210> 2744

<211> 586

<212> DNA

<213> Homo sapiens

<400> 2744

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 gancctgcgt gtggtgggca agctcctcaa atggtatctc acagggaata ggggagtctt 240
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 tgctgggtgat tgggtgtggc aactcanaac tgantgagca actgtatgat gtgggctatc 480
 gggatatant gaacatccac atcngtgagg ttgtcatcaa gcaaatgaan gaatgttatg 540
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<210> 2745

<211> 633

<212> DNA

<213> Homo sapiens

<400> 2745

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gtgcctatgg accaaagctc caggggtcaa gataaaccan aaagcttgca accaagacag 180
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aaggctcata ttttatccat gcagaagttt ggactgagag atacaattgt gaaatcncat 300
ctactacaga aagaaganga ttacacctat atccanaact tcaggttttt tgcgggaaca 360
tacaatgtna atgggcagtc ccccaaagaa tgcctccggc tgtggctgaa caatggatc 420
caagccccc an atgtctattg tgtanggttc cangaactg atctgagtaa ggaagctttt 480
ttctttcacg atacccccaa ggaagaanaa tggttcaaag ctgtgtcaga aggtcttcat 540
ccagatgcca aatatgcca ggtgaagctt atcccactgg gttgggatta tgctgtgtgt 600
atatntcaac aggancatgc nncattatc tcn 633
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<210> 2746

<211> 864

<212> DNA

<213> Homo sapiens

<400> 2746

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cgggtcggtc caagtccgcg ctggctgggc gtgtcccggg caggaccag gtcccagacc 180
gcgcctgcag ttccgcgcgg tgtgcgccc cggtcgtggc ggggcacggg gcg'cg'cg'gg 240
cccgcaggtg gggaacgctc tgggcagcct ggagccactg cgctggatgc tgcgctcgcc 300
cttcgaccgc aacgtgccgg tcaacctgga gcttcaggag ttgtgtgtgg actacagctt 360
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ccagcacctg ggtgtctcct cacagggctg tgttgatcat cccatagttt tgacagaagc 420
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 aaaccaanca acttnggttt actcccagcg tctcccccca gcttaaaatt acccctgggg 720
 cacctgggca ngccatcacc cctccagccc gccatgggaa gaaaaattct gccttnaaac 780
 acaaaccttc cntccctta aaagaattaa tgttnggaaa aaaatttacc cccaaattgg 840
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<210> 2747

<211> 553

<212> DNA

<213> Homo sapiens

<400> 2747

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 tacganaggt cgagggcgac ctgggcacgc ttcagtggac cgagggccgc attcccaggc 180
 cgcgattcct cccagagaag gcaaaatccc atcagacctg gaaagcagga gacagggtag 240
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 ccagagacac gacnaggatg gaaaatccag aagccacnga tcaaagactg cccacagcc 480
 aacctcnct tcaagagctt cagtaccacc ggcngccact tggccatgga attgctgtng 540
 gctgcgaccg gcc 553

<210> 2748

<211> 685

<212> DNA

<213> Homo sapiens

<400> 2748

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aatgaaaaa acatgaaagg acttagcata atgttatttt atcttttcta caactttgtt   60
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tctaggttta taaaccggtt tcacattatt tcatttgatc atcacaagag ctttgtgaag  180
taagccgaga agttgttact ggtatttaat aatagcaata gaggagttaa agactttccc  240
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tgttaacca aattgctgct ctgttttagg tctcaatttc atctgtaaaa tgataactaat  360
agtacttata ccattggatt ttgtttgaga tttaaataaa tagccaaaag ccaatacata  420
ataaacactc aataaagatt aaccataagg agagtcatga tctggttcca ggaatacatt  480
gttagatgac tgaaaaattg tattacttca atgaaaatac tataaataat aacattttca  540
tatattagtt ggttctcatg catacataat ctaattttat ttgatcctca caactgttta  600
agttttatta aatatacatt atccctgttt ggittaaatt agaaacntac natncctggc  660
ctgctttent tccacnaaaa ttatc                                         685

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<210> 2749

<211> 556

<212> DNA

<213> Homo sapiens

<400> 2749

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acagcagaag cagtaggaag agaagagaga ctgaggatct tgaattaggg tctagatgaa  360

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aatttaggat gattcctacg tttgggaatg gagggagagc ttaaacaaga tagagaatat 420
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<210> 2750

<211> 747

<212> DNA

<213> Homo sapiens

<400> 2750

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 aatctttctc anccaagatt tgctcctgtt ttaatcaatg ctgctgaaat aattattgat 660
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<210> 2751

<211> 570

<212> DNA

<213> Homo sapiens

<400> 2751

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<210> 2752

<211> 614

<212> DNA

<213> Homo sapiens

<400> 2752

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 tgagattaag gtggttgcca agggaaacaga aaacagccat gaggtaaataa atcaagactt 180
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614

<210> 2753

<211> 592

<212> DNA

<213> Homo sapiens

<400> 2753

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<210> 2754

<211> 631

<212> DNA

<213> Homo sapiens

<400> 2754

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gaagcaaaac tcagtatgaa gctgttcaaa gtgaagggtgt tatgattcaa gagtggtata  180
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 agaaaagagc tgctatcact ttacagcatt attttaggac gtggcaaacc agaaaacagt 420
 ttttactata tagaaaagca gcagtggttt tacaaaatca ctacagagca tttctgtctg 480
 caaaacatca aagacaagtc tatttacaga tcagaagcag tgttatcatt attcaagcta 540
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<210> 2755

<211> 751

<212> DNA

<213> Homo sapiens

<400> 2755

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<210> 2756

<211> 608

<212> DNA

<213> Homo sapiens

<400> 2756

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tgagtctgtc aaagaccttc tttccaatga agacgcagct gatgatgctt ttaagacaag 540
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tccaaaat 608
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<210> 2757

<211> 773

<212> DNA

<213> Homo sapiens

<400> 2757

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gacgcagggtg ggctctgggg aagccgtcac agaggagtca ccagcacccc cgaatgaggc 360
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 ggtggcgaaa ggttcatttc aatgaaaaag ggtccttcat cggccaatta cncgggtccaa 720
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<210> 2758

<211> 697

<212> DNA

<213> Homo sapiens

<400> 2758

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 ccctaagctc ctgagggttg gcctgaccct gaggttgcct gtcaatcacc atttcttccc 240
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<210> 2759

<211> 751

<212> DNA

<213> Homo sapiens

<400> 2759

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<210> 2760

<211> 412

<212> DNA

<213> Homo sapiens

<400> 2760

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caatccnagc agttcttaat gtttcccca ctatcatgct agcccatgcc accacctttg  300

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cctgaaatac tgcaagtatc ctaattaatc ttcctnatcc taatcatgct ccaatatgat 360
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<210> 2761

<211> 769

<212> DNA

<213> Homo sapiens

<400> 2761

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<210> 2762

<211> 649

<212> DNA

<213> Homo sapiens

<400> 2762

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<210> 2763

<211> 745

<212> DNA

<213> Homo sapiens

<400> 2763

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<210> 2764

<211> 770

<212> DNA

<213> Homo sapiens

<400> 2764

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<210> 2765

<211> 578

<212> DNA

<213> Homo sapiens

<400> 2765

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<210> 2766

<211> 783

<212> DNA

<213> Homo sapiens

<400> 2766

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<210> 2767

<211> 685

<212> DNA

<213> Homo sapiens

<400> 2767

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aagttaaate ctgaantgt tagaagtcag tgggccaate tttcatggga attactttat 660
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<210> 2768

<211> 817

<212> DNA

<213> Homo sapiens

<400> 2768

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 aactgccatg cggttgcctg caggtcgggc cactgtgctt cccatgccgc tatctggcag 480
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<210> 2769

<211> 533

<212> DNA

<213> Homo sapiens

<400> 2769

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 cccgggcaca tcaacgagga ggtcgagacc gaggggggct ccgagctgga ggggaccgcg 360
 canccaccgc cgcccgggct gcagccgcac gcggagcccg gcggctactc ngggccggac 420
 ggacattatg ccatggacaa tattaccang canaaccaat tctacgatac ccaagtcac 480
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<210> 2770

<211> 609

<212> DNA

<213> Homo sapiens

<400> 2770

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actgctgtga acggcctgcg gagcaccacg tgcgacggct ggaggcgaaa ggtctgcctt   180
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cagggctcac tagcattgga cgctttcacg ctctgccctg ggccggaagc cccctcacc   540
cgcgcgatgt gcaaactcct tgcanggctc actcantttc canaacttta attattggaa   600
agttctccc                                     609
    
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<210> 2771

<211> 622

<212> DNA

<213> Homo sapiens

<400> 2771

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agagctgaga aggaaaaanag gagcttgagg aggtgcggct gcaggccgtt gttggtcgag   180
ctggcgggtc ccgcgggcca ggccgtggag agctcctgaa ggaagcacta aacatggaaa   240
    
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ggaacaaccg gtaccagcca ctgcaaaaac atgccaaatt gtaaagacca tcgatgttag 300
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 attcacacat aacgatatta accttaaagg tgttacctca ttttgaaagt cttgggaaac 420
 aggaaaaaat tcctaacaaa atgtcagctt ttcnaaatca ttgtccacat ttggattcag 480
 ttggtgaaat aacaaaagaa gatttgatac naaaatccct tgggtacttgt caggattgta 540
 aantccaagg accaaatctt tgggcatgtc tggaaaaata aatgttcata tnttggctgt 600
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<210> 2772

<211> 420

<212> DNA

<213> Homo sapiens

<400> 2772

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 agccccattt ctggaggtat gcaaactttg actggacagc cagctctgag attttatcag 240
 ggcacttcta tacctgtggg acattggact ggatgagccc tgagccagct tccactccta 300
 cctgaataga aaactcactg caccnccca caacacntga taaacacatg tcctcactga 360
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<210> 2773

<211> 499

<212> DNA

<213> Homo sapiens

<400> 2773

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 agtcctctct ttgggaaga 499

<210> 2774

<211> 668

<212> DNA

<213> Homo sapiens

<400> 2774

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 ttccggtagg agactttctg gatggggaag atttccagga attggcaaca agtcatttc 180
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 gatttaaaat gtgtgccttc ttttccgtca ccaagtcac cctgggttnc tactggaaca 600
 tccttctcaa tccccccga cccatggatg gctgttctcc attgtctgtt tcnccanatg 660
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<210> 2775

<211> 810

<212> DNA

<213> Homo sapiens

<400> 2775

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cccgtacgg tgccctgctg cccgttgcta ctgaggcggc gtgctctgca ttcttcgctg  180
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cntcatccaa ctctaatat taactctaca tctggttcct gctactaaca accctttttg  720
gtttaagttg gccttggggg gactttgcaa ggtctnaatt ancttgggggt ttgaaatact  780
aaccaanctt tctctnaaat taacnaaatt                                     810

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<210> 2776

<211> 813

<212> DNA

<213> Homo sapiens

<400> 2776

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atattctctc tatatagtat cctgtatgtt atttatccac tatacatctc tatatagcta  180

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atatgctata tattactata tacagtata atataaatat acacacattt tatgcattat 240
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 aggtgtagaa acacttaaca agttaagaaa actgagtaac aaaaatattg ctatttgatg 540
 aactgttgaa gatgagaatg aaagttttct tcttgtaaga ttgattcaag tgtgccccaa 600
 gttcctangg gaaaaaaaaac ttaatatanc tacactntgg atgggtggaa cnatggaaga 660
 agaaaaaaaaa ctnggggcag attttatggg atgccattaa taagaaatgt tgaaaaaaan 720
 agaatccctc aacattttta anttattagt tactaaaatt taaatttggg gccctaaaaa 780
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<210> 2777

<211> 511

<212> DNA

<213> Homo sapiens

<400> 2777

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 ggtcctctan ctccattcc cccaacgctg ttggccctg ggcaccctgc tgggccccaa 420
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<210> 2778

<211> 577

<212> DNA

<213> Homo sapiens

<400> 2778

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gaggaaatgg tgaatatgca tggattatg aaangaagaa atgggtgggtg gcagtacgat 540
gagcgcacta ntananaact gggaanatgc tttttcc 577
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<210> 2779

<211> 400

<212> DNA

<213> Homo sapiens

<400> 2779

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gtttttgtct tgtatagacn gacacaagtt cancatgttg canattggga atagttagct 360
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<210> 2780

<211> 823

<212> DNA

<213> Homo sapiens

<400> 2780

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tgataatfff ggaagtgagc atcctggatc aaagcaagaa tttctgagtc tcttaatgca 180
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aatcaggata aatactgcaa caactgtagc tgacttaag tcaataataa atgaatgcta 480
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cattttgtag catcctgtgt cataaanctg aaantctttc tgccaaaatc cttagtgagc 720
ttttttacag tacacacatt acctgatgtt aaaactttgg gggtttgga canttacttt 780
cnggctgttg aaaaatggtn aatctncnc aacaatggga aaa 823

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<210> 2781

<211> 650

<212> DNA

<213> Homo sapiens

<400> 2781

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 cccatttgat gttcagcctg tcccattaag aagaattttg gcacctgggtg aagaagagaa 540
 tttgggattt gaagaagatg aagaagaagg tgggtctgga gcagggtctc ctgattcttt 600
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<210> 2782

<211> 627

<212> DNA

<213> Homo sapiens

<400> 2782

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 ctgagaggga cagcagtgga cgagcggccg aagcagcttt gcggtgagag cagctgggc 180
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<210> 2783

<211> 648

<212> DNA

<213> Homo sapiens

<400> 2783

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<210> 2784

<211> 462

<212> DNA

<213> Homo sapiens

<400> 2784

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gcacgtcccc cttccctcc cgcagggagc ggacntggac tacgactcgt accatcacta 360
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<210> 2785

<211> 713

<212> DNA

<213> Homo sapiens

<400> 2785

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<210> 2786

<211> 576

<212> DNA

<213> Homo sapiens

<400> 2786

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<210> 2787

<211> 591

<212> DNA

<213> Homo sapiens

<400> 2787

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<210> 2788

<211> 764

<212> DNA

<213> Homo sapiens

<400> 2788

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taaaaaatga ctgctgttgg gggccagggg acatcatggg gaagtggggc tgtccaattt 660
agctttgccc ctgcaccttc ngcccangaa aagatttgaa ccnaaaccaa ngcttccaaa 720
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<210> 2789

<211> 721

<212> DNA

<213> Homo sapiens

<400> 2789

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gactcgtggc ctttgggcta gaagccatgg acgccttcac ccgcttcacc aaccagaccc 180
agggccggga ccgactcttc agagccactc agtacacatg catgttgctt agatatttgt 240
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tagagcccaa agctggcaaa gagaaggtagg taatgaagct caagaaactg gaggccagt 300
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 caggcgaag aaagagaatc agcatcccag atccttggtc acntggtag agaacaaatg 660
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<210> 2790

<211> 619

<212> DNA

<213> Homo sapiens

<400> 2790

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 aagccagctc caccctggcg aggccctgac ctcagcggac ccaagcccag gacgatgcct 180
 gttgcgttct tctccccag tagcaagtca cttccccag cagcctccat gttgtctggg 240
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 tgatgtcact ggctaagggg ggcancatgg ggtccagccc ggcccangca catggaactg 540
 cggctcctgtc angctgaatg tgggtttgc cttctaagat nggccccag gcaccanttc 600
 ccaaaaaagg tctgtcncc 619

<210> 2791

<211> 551

<212> DNA

<213> Homo sapiens

<400> 2791

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tttgatgatg cccaacagga ggaccggaag agactggcgg agctgctggt ctccgtcctg   60
gaacaggggt tgccaccctc ccaccgtgtc atctggctgc agagtgtccg aatcctgtcc  120
cgggaccgca actgcctgga cccgttcacc agccgccaga gcctgcaggc actagcctgc  180
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cgcaccgatg tgcgccagca gctgtttcag ganctgaaan gaatgcgcct gctaactgac  480
acactgganc tgacctgggg gtgactcctg aanggaaccc ccaccacgt ccttccttcc  540
caanaaactg a

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551

<210> 2792

<211> 697

<212> DNA

<213> Homo sapiens

<400> 2792

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atcgctgcgg ttgcgagcgc tgtaaggagc ctgtgctgtg ccgcgcagtt aggcagcagc   60
agccgcggga gcagtagccg ccgtgggagg gagccatgaa gcattacgag gtggagattc  120
tggacgcaaa gacaaggag aagctgtgtt tcttgacaa ggtggagccc cacgccacca  180
ttgcggagat caagaacctc ttaactaaga cccatccgca gtggtacccc gcccgccagt  240
ccctccgcct ggaccccaag ggcaagtccc tgaaggatga ggatgttctg cagaagctgc  300
ccgtgggcac cacggccaca ctgtacttcc gggacctggg ggcccagatc agctgggtga  360
cggctcttct aacagagtac gcggggcccc tttcatcta cctgctcttc tacttccgag  420

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tgcccttcat ctatggccgc aaatatgact ttacgtccag tcggcataca gtggtgcacc 480
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 accgcttctc ccatggcact atgcctttgc gcaacatctt caagaactgc acctactact 600
 ggggcttccc cgcgtagatg gcctattaca tcaatcacct ctctacactc cccctancta 660
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<210> 2793

<211> 747

<212> DNA

<213> Homo sapiens

<400> 2793

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 aagccattta tctgaaggct gcatagtggg gagagtcttc agtttacctc attctttgta 180
 gcancccttg attttaacag gtttttgtaa taggtacaga taatcccata cctttctagg 240
 tgcgatttta agttaagcta aaaattattt gtagggttaa tttatttgta tatgatagta 300
 gaaggtaaga tcatgtcaaa ccttataatt tggggaatct gacactattt aaattattgg 360
 caactgttgt ctgttgtaca naaattcttt ttctactggc tcagtctgtt acattaataa 420
 tgcattttat atgttcaggc acactttaca taaatacaaa gttcgctagt aaatatctgg 480
 ctattttggc tatttacaac actaatttca ttatttttat ctgtaagcat tattaataca 540
 tctttaccaa aacctgagca atacnatatt tnccttatat gttatatgcc ctgttttgct 600
 aaaancta atttttgcat ttactttaaa ggggctgttc taaaccccca gctttaattc 660
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<210> 2794

<211> 645

<212> DNA

<213> Homo sapiens

<400> 2794

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gcggtgccgg gggcggggcg cggcggctgt canctgactg tggcggcggc ggcctcgaag 60
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gtcgggtcgg cgagccacgg gggccgcccgc agcaccatgg cgaccaccgt cagctggacg 180
cccaggcggc ccagcagctg cagtacggan gcgcantggg caccgtgggc cgactgaaca 240
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gccgactgcg cctgggctac gcggtgtacg aaacgcccac ggcacacaat ggcgccaana 360
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tcgagatctt cnatgaaana accttctcca tggacgaccg cattgcctgg acccacatca 480
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gcagggggac aacaaggaag gcatgatcaa cctcgtcatt tctacncgt gcttccanct 600
gccatggtna tgccacccan cccgtggtcc tgatgccaac aatnt 645

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<210> 2795

<211> 760

<212> DNA

<213> Homo sapiens

<400> 2795

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naaggaactt taaattctta tatttacttt tctctcagta aattgttaaa ttttactca 60
gcaaaagatt ggcatttggt aagtgttcta tatttagtac taaaatcaca gtcatgaaat 120
catagtcata aaatggtctt cacacagcag tcatccgtgt catttatcat ttgtaatat 180
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aatactgcgc tgccatcatg gtgactgtca tggttctaca gaaatgccct ccatgtgtcc 360
ctctaattgt gcatgtttca gtgggttgga agttttgtat atttattgta ttaacacaga 420
gtgtcataaa ataaaatgct gtttactgga tgtttggttg tataattttg aacactataa 480

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tagcaattca gagacagaca ttgttaaagg tttgatgtat atanaaatc catgtttgat 540
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 taaaaattct aaccaatggt aaaatgacca ttttctgtt gcattaaaac ctttacaggt 660
 taatggaaca tgaacttcnc cccatattaa atattttggg ccctttaagg tcnaaataca 720
 natctcctaa aanttanatt ccaaattggaa aaacctattc 760

<210> 2796

<211> 577

<212> DNA

<213> Homo sapiens

<400> 2796

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 ccagtaccca gatcctggat cctagactcc tatgccccaa ccattgggtc atgggatccc 180
 agcaccacga tcctggatcc tagactccta tgccccaacc actgggtcat gcgatcccca 240
 cccttcagcc actagatccc agatccccct gtaaccataa ctgtggatcc cttacttcag 300
 caactcaagt ctgtaccct aaccacaaga ttcaagatta tccacacccc agcccttaat 360
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 cctgtgcccc ctactggatc ctggacctct acgtcttaac cactggatcc cacacaaatc 480
 antgaatgga tcccaacacc ccaaccacag gagcacggat tccctgtnc tcaacaccca 540
 naccctgcct ccctcangca ccanatccag tgctcta 577

<210> 2797

<211> 737

<212> DNA

<213> Homo sapiens

<400> 2797

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 tagcaatagt aggtgttggt ggagtaggta gtgtgactgc tgaaatgctg acaagatgtg 120
 gcattggtaa gttgctactc tttgattatg acaaggtgga actagccaat atgaatagac 180
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 ggaacattaa tcctgatgtt ctttttgaag tacacaacta taatataacc acagtggaaa 300
 actttcaaca tttcatggat agaataagta atgggtgggtt agaagaagga aaacctgttg 360
 atctagtctt tagctgtgtg gacaattttg aagctcgaat gacaataaat acagcttgta 420
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 actatgggtg tggttgctgg gatcttaata caaaacgtgt taaagtttct gttaaatttt 660
 ggtactgtta ntttttacct tggataccat nccatgccg aattttttcc cactatntcc 720
 atnaaaccca atccncc 737

<210> 2798

<211> 492

<212> DNA

<213> Homo sapiens

<400> 2798

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 catggtctat agtatagtgt gatatgacta ctgttccaat gtattgaagt gttgggtag 180
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 ctagtttcaa attacattgc agtataatga aaaagatcca tatactgtgg aatgatattc 360
 ttttaaaatt atttgctatg gcttggtaaa aatgtacttt ttccagtagc acatatacaca 420
 agaacctcac tgtanttgaa agccatcint cntagtagt tgtttatccn ttaggagag 480
 tcnagcaaag gt 492

<210> 2799

<211> 816

<212> DNA

<213> Homo sapiens

<400> 2799

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cagccacct cttgcatcgt cacctacagg tatctaagca atggatccaa gccctggagg   60
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tcctcgatgc caatcactgt cctggttctg tcatgtttct ctttgaagga tattttggaa  180
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cactggggaa acagatccat actttatacc tagacaacac caattgcaat ccagccctgg  300
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aacataacat aaagattgga ctctacagcc tgggaaagga atcactgctg gagcagctgg  420
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tgggcctggc agatgtgttc acagtggang agaagctggc cgcattccatg cagtanacca  540
tatggagacc tgccattcca acatgctgcg ttggaaccan acccaccta cgattgctat  600
ccttcccaca aagccgaaaa atccacagct cccaccctga tatccacgtc atcccttact  660
ctgaacattc ctcttactcc gaatttcctg cctttgtccc aacactgaaa ccttgccaag  720
ttggttgccc attgttaatt ccgccgncc ctgttggaag ggtttccang ganagttctg  780
aaacccang gattctccng tgccccctga aattcc                               816

```

<210> 2800

<211> 616

<212> DNA

<213> Homo sapiens

<400> 2800

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gagatcagaa caatggccta gggtcaggcc cagccccagg cccagtggta ttactgaatt   60

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 gttggcagtc acaaactcgc agaaccctaa gtctttcgag tctcaattcc caggattcca 540
 gtattgaaat ttcaaanctt actgataagg tgcaggccga gtatananat gcctatanag 600
 aatacattgc tccnat 616

<210> 2801

<211> 620

<212> DNA

<213> Homo sapiens

<400> 2801

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 ctctgttagc ggctcaggtc cgcagtggag gccacatcaa ctcggcgcct tgggaaccgc 180
 tcgagcctac cagcagattc cagantcatt aaaaagtatc acatggcaga aattgggaaa 240
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 agacaggcca gatctacgan ctaganttgc catttcgctg ggatttttgg gtggtgcaaa 480
 ngccatgaat attgtggttc cttcatgtt taaatatgct gtanacagcc tcaaccanat 540
 gtcnggaaac atgctgaacc tgagtgatgc cccaataca ttgcaaccat ggcaacanca 600
 nttctgattg gctatggtgt 620

<210> 2802

<211> 604

<212> DNA

<213> Homo sapiens

<400> 2802

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aagatggcgg accttgattc gcctccgaag ctgtcagggg tgcagcagcc gtctgagggg 60
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caggagctgg aggctgtata cgaacggctc tgcggcgagg agaaagtggg ggagagagag 180
ctggatgctc ttttggaaca gcaaaacacc attgaaagta agatgggtcac tctccaccga 240
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tttacctgca acctggctga naatgtgtcc agcaaagttc gtcagcttga cctggccaag 360
aaccgcctct atcangccat tcagagagct gatgacatct tggacctgaa nttctgcatg 420
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ccgctacttg tgcctggaca agtcgggtcat tgaactcagc cgacagggcc aaggggggan 540
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ggca 604

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<210> 2803

<211> 653

<212> DNA

<213> Homo sapiens

<400> 2803

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ctccgagcag gacactgcta cttacaagg tggtttgagc caaactgtgg cacgtttcag 60
gcaggattcc tccttcattc aaactgcac acccaggant ctgcaaattc cccaaagtag 120
gaggaaaaat gaccacattc aaggaggcag tgaccttcaa ggatgtggct gtggtcttca 180
ctgagganga gctggggctg ctggaccctg cccagaggaa gctgtaccga gatgtgatgc 240
tggagaactt caggaacctg ctctcagtgg ggcatcaacc gttccaccaa gatacttgcc 300

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acttcctaag ggaagaaaag ttttgatga tggggacagc aacccaaaga gaagggaatt 360
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 ggtcctgcc a gcaaatctgg gaacaaattg caaaagactt aaccaggtct caggactcta 480
 tcataaataa ctctcanttc ttigaaaatg gtgatgtccc ctcccagggt gaagcaggac 540
 taccacaaat tcatacaggg acanaaacct tcccaggggt ggggaagtgt aaacagtcct 600
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<210> 2804

<211> 761

<212> DNA

<213> Homo sapiens

<400> 2804

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 aagtacatag agctctttat agtaaaggta ttctattgat ggcagcctca gaaaatgagg 180
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 ctcttccgcc tccaanttat gttggtccca tcttgggggt ccctgtctaa tccnagttcc 720
 cccgttccca atggtantcc caacccaaat cennctttt t 761

<210> 2805

<211> 667

<212> DNA

<213> Homo sapiens

<400> 2805

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gggtcggcct ccagcccctg tgcccgggat ccgctcgccg cggatgancg agagtttctt  180
cctgggactt ttcgggcaca gctggccggt ggcgacataa cggactttct ttcctgcaag  240
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ctatitttaa atatccagat tccaagaaca cactggatac tgctcttaca aaaccaagan  360
gaaatcatga agaaatgttt tagttattga aactacagtt gaaatcatgg atacatcaac  420
aaatctggat attggagccc ancttatcgt ggaagaatgt cccagcactt atagcctaac  480
tggcatgcca gacattaaaa tagaacatcc actggacca aattcanaan aanggtcagc  540
tcanggtgtt gccatgggaa tgaaattcat attgcctaac cgatttgata tgaatgtgtg  600
ttctcnattt gttgaaatcc ttaaataaan aaaatantaa aaatattcna gatcaggtta  660
actctna                                           667

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<210> 2806

<211> 617

<212> DNA

<213> Homo sapiens

<400> 2806

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tgtgctcggg ggcccagggtg ttcatcctgg gcttgccctc ccgcatcgcc tcagtgtggt   60
ttgggcccac agagggtgtcc acagcttggt ccaccgccgt gctgggcaat cagcttgga  120
ctgcagttgg ctttttgcta ccaccagttt tagtaccacaa cacacagaat gacacaaatc  180
tcctggcttg taatatcagc accatgtttt atggaacatc agctgttgcc acacttttat  240
ttattttaac agcaattgcc ttcaaagaaa aacctcggtg tccaccaagt cnggctcaag  300
cagctcttca agacagtcct cctnaanagt actcctataa gaaatcaata agaaacctgt  360

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ttaaaaacat tccttttgtc cttctgttga tcacttatgg tatcatgact ggtgcctttt 420
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 atgctggaan gattgggcta acgctagtat tancgtgaat ggtgggcncct attctttgtg 540
 gcttatggct ggattatact aaaacataca aacagactac tctnatagtt tatattttgt 600
 ctnttatngg gaatngt 617

<210> 2807

<211> 670

<212> DNA

<213> Homo sapiens

<400> 2807

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<210> 2808

<211> 772

<212> DNA

<213> Homo sapiens

<400> 2808

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ctcaatgtca gtcagggtca tggttgatnt tcacagccat tacaattctg tcccnatgaa 720
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<210> 2809

<211> 638

<212> DNA

<213> Homo sapiens

<400> 2809

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tgtgagccac ttcaccagc cacatttata catcttgtaa aatattgctt tgttttttgg 360
tgcatctcaa agaatactg accctggagg atgtggctgt ggagttcact tgggangagt 420

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ggcagctcct cggccctgct cagaaagacc tgtaccgaga cgtgatgttg gagaactata 480
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<210> 2810

<211> 646

<212> DNA

<213> Homo sapiens

<400> 2810

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 tggagggcag tatggtagtg ggctaccccc tggtaggttg tatgggggtc ctgcccctgg 180
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<210> 2811

<211> 422

<212> DNA

<213> Homo sapiens

<400> 2811

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gaagcacaag gaaaaattga tgtinctcaa nctgaagtag ctgcattgaa gacacttgta 360
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aa 422

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<210> 2812

<211> 517

<212> DNA

<213> Homo sapiens

<400> 2812

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cggaaggggc tgangatgan tttgtgacnt ccatnganac atggcgggag accatggggg 480
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<210> 2813

<211> 567

<212> DNA

<213> Homo sapiens

<400> 2813

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cgtccgcacc gatgcctacc gcctgggtat ccttcggaac tgggcagcac tgcgaggcaa   180
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gtccatgctg agctccgtcc tccacgcgcg aaccaagtgg ctgaaggagg gcggtcttct   480
cctgccggcc tccgccganc tcttcatan ccccatcagc gaccanatgc tggaatggcg   540
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<210> 2814

<211> 729

<212> DNA

<213> Homo sapiens

<400> 2814

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ttctcctctg ggtgaaagca gaacccttta tagtgggtgc cttgcaggtc cccctccat   180
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aaggagctta cccgcgcctc tactggtcta catggaggca catcgcttgt gggaagctgc   300
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ttcaacagtt gaacaaggtc tccctaanga catctttgat tggcgaaaan tggcccagtc   540
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ggaatgatta cagtcaccaa acttttgtct atgaatcatc tgtctgatct cctccaancc 660
cctgctttta aatccaaaac aactcncttg cntcatttca ttcaacccat antantctaa 720
ttgtctcca 729

<210> 2815

<211> 667

<212> DNA

<213> Homo sapiens

<400> 2815

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accgtgtcgg aggccgagag cgatgagagt acagggaagt gaggaagagg ggggtggccgc 180
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tccccacgtt cccccgttc gcccgactcc ggccatgtta cgcgcacgtc agccccgcacg 540
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ctgcgaacca gccatcccgat acgcgctcac ccacgggaac ctctcnccc anttctccct 660
ccccctn 667

<210> 2816

<211> 796

<212> DNA

<213> Homo sapiens

<400> 2816

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 gagcctaaaa ggccacctct gancacttgg gcagccactc ctctgggcct cagagggcca 180
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 atttctccga atgttgaaaa agaaaaaagg gaaatcccaa aacnntcc nttttgccct 780
 gccatatttn ggcttg 796

<210> 2817

<211> 546

<212> DNA

<213> Homo sapiens

<400> 2817

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 ggtgccccag ggccagcgac caccgcctcg tatcaagaat ttccagataa acaaccagat 180
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 aatctatgtc ttgccttca acatcgtcta tgtggccctc aaatctttga aaattggctt 420
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caaccn 546

<210> 2818

<211> 488

<212> DNA

<213> Homo sapiens

<400> 2818

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cgagaccctc cgactcgtgg gtacgcatag gcctcgccag cgagccttgc ccaggcaacg 120
agtcgccagc ccgccccctc gccgcgggct aggtctcacc tcgccaccag tacgtcttgg 180
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nagcttttcn gattttacgc ttgacattgc cctcggtgcc cggcgcatat agctcgcgct 420
cgttcgtcag gtaacacagg atggcccggg anctttcctc gcttgacatc ncggacgcgg 480
ctccctna 488

<210> 2819

<211> 639

<212> DNA

<213> Homo sapiens

<400> 2819

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 agctcacaaa tcctcnggga accaactttc nggggcttcc atcaaaaata gatctctnaa 600
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<210> 2820

<211> 633

<212> DNA

<213> Homo sapiens

<400> 2820

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 aaattattga gagagctgaa aaatttggac tcccgccagt gccgtgagac acacaaaatc 180
 gcagtgtttt acattgctga aggtcaagaa nacaagtgtt caatcctctc taatgaaaga 240
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 ctcatatttt acccnatgaa gaatcncatg ttcttcatcg cgataacgaa aaaacctgan 600
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<210> 2821

<211> 457

<212> DNA

<213> Homo sapiens

<400> 2821

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ctttcacaac aacatcatcg tattgattgt ccctctcatg aatgacatgt cnaaattgat  180
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gccaggagat gttaaaaaca tttttatgcc tgagaatcna ggaagtagaa gtgaaaaaag  360
atacagaaga cattgataga ccagnaaaat ttatgacttt caaagaaaag agaaaatctc  420
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<210> 2822

<211> 689

<212> DNA

<213> Homo sapiens

<400> 2822

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catccagaaa atctctaaan antangggc

689

<210> 2823

<211> 672

<212> DNA

<213> Homo sapiens

<400> 2823

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<210> 2824

<211> 681

<212> DNA

<213> Homo sapiens

<400> 2824

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aaatcatgag aaaaatacta ggaaatttaa gttttagtaa aactctgtca agttaacttt 180
 gaattttata tcaagaagaa actattgaga aaaaaacctc atgcttttac acaatagtat 240
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 aatagcatct gttagccagc cacggtggct catgcctgta atcccancac gtggggaggc 480
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 ancaactcag ggaggcccta cctcccacct cagtaggana aatggtgntg aaccccgggg 660
 aggcggganc ttggcantgg a 681

<210> 2825

<211> 406

<212> DNA

<213> Homo sapiens

<400> 2825

aatgcggaaa aaaaaaaaaa aaaaaaggaa aatccttagc aggttctagc atgcaanagt 60
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 cactgaggat ttagtaaatg tgggtgaagt atggtgcatg ctctttgttt tgtttggcgt 180
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 ctgttgggag catcaggaan agcttcccag gaggtcacat taagtggatg ttggcagaca 360
 ggacttagaa cagtggggag gaggtggtg tccaagcan aancaa 406

<210> 2826

<211> 611

<212> DNA

<213> Homo sapiens

<400> 2826

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gtttaacatg c 611

<210> 2827

<211> 598

<212> DNA

<213> Homo sapiens

<400> 2827

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aaattacgt tctccgcaca aanacttant ttattccttc tttttgcaat ttgctccn 598

<210> 2828

<211> 724

<212> DNA

<213> Homo sapiens

<400> 2828

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 gtccattggc caataaacta gatcaaaagc tacttcatgg aaagctgttt tttccttgat 180
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 ttttctcttg tccagattgt gattcagtgt caaagtgggg cagtcattcg taagtgtga 300
 gcattgtgga gcaggagggg aaaggggcct gttctctcaa ggaccttcac tatccattca 360
 tttcctaccc ccagactctt gttagattgg gctgatccaa actcataata tgaatagatg 420
 gacattgacc aaagagacca gcagcagaac aaaagcataa acaaactga gagtangcta 480
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 acttccctct tcgctcactc tctccctccc gctccacat gttgaagatt gtgcctgttt 600
 ctcttcacc ttctgccatg attgtaaatt tctgaagcc tccccancca tgcctccttg 660
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 ngcc 724

<210> 2829

<211> 486

<212> DNA

<213> Homo sapiens

<400> 2829

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 caagtcaaag cctgcatttc atacaggcaa tgtagggta ncccccaagc catgattcgg 180
 aaagataaat tgacccana aggaataggg ctgggtccct tctcccttga cagctccctt 240
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 ctgaaattcc aaaaatataa atgtggaaag actggaaggg gtcgangaat ctctttgcct 420
 gccttactct ggccccanct ctcctttccc tttgcatgtt tgaccatctg ggtnatnaag 480
 aaggtg 486

<210> 2830

<211> 267

<212> DNA

<213> Homo sapiens

<400> 2830

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 cggtgccctg ggggtctcccg aagaccttgt ncccgcgcggt tttccttggg ctggctttgg 180
 acgacncttt ccccttcctg ctgcctaaga tccgcccaca ttaatccnt cctagtggtc 240
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<210> 2831

<211> 385

<212> DNA

<213> Homo sapiens

<400> 2831

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ctacactata tttaacagct gcggcggaag aggcaggga gcagccacgg tggcggctct 180
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 gcggtgagcg aagtcacat gccagcttcc caaaaccggg cccgtgcccg ggaccgcaac 300
 aacgtcctca accgggctga attcctgtcc ctgaaccncc cccccaaggg gggcccngaa 360
 cccccanct cgggcagaaa gcctc 385

<210> 2832

<211> 484

<212> DNA

<213> Homo sapiens

<400> 2832

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 tcggaaatgt gtggacacct acaagtacct ttcatcttc tctgtggcca acatgaggaa 180
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 ccangtcagc aaaagggtga ggggtgaggt gggctctcctg ttcaccaacc gcacaaagga 360
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 ancc 484

<210> 2833

<211> 540

<212> DNA

<213> Homo sapiens

<400> 2833

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 cttttgttga ctcccgtgtg gccctcgtgg gagcctgttt tggctgcagc ggtgtctggg 180
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 gaagggaact atgaagccat attcttaaatt tcaatgactc aaaatatttt taattcaaca 360
 acaaccgctn aagaaaagat tgatagctac ctggagaagc aggtagtaac attcctggat 420
 tactcaacag atttgacac aacggaaaga caacagttga tatttctact tgggtgtgagc 480
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<210> 2834

<211> 546

<212> DNA

<213> Homo sapiens

<400> 2834

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 ccaatcttcc tgttggaaac aaagaagtca ttctgccccat caaggtgggt ggagggccaa 180
 cagttcacat ctgtctccaa gccaaaggatga ccattccaac catgactctc tctcgtggaa 240
 aagtggactt tgccacaatt cagtgtggac agtgcctggt ggaaactatt cagctttcca 300
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 agaaacacat gccgaagtac ttaagacaga aactacgcgc tgaattaaag ccaaagacac 420
 ggatcttcga aatccanccc atttctggag tcttgatcc tggtagagaaa tccnacgtgc 480
 aagtnaaatt catgccaaaa naaaaaaat tctacagccc aaccctggtg tttcanattg 540
 cccana 546

<210> 2835

<211> 458

<212> DNA

<213> Homo sapiens

<400> 2835

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gcgcacatgcnc gcgcccgggc ggcgcgggat ctgggtctgg ggatgtggta ccggctgctg 60
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ccaggangcg gcaggacggc caanaccagc gcgagggccc tgggcaaggc ccgacagtgg 180
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gacgttatatt tcctgggtggc tgtgttcaaa accacccaaa gggtttgaga aatacttta 360
gangagtga aggaacacaa actgagaaac atcnacagca ccaaaaaaag agactgggtga 420
actaganaat gctgantctg gaaganacgg aggccgga 458
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<210> 2836

<211> 634

<212> DNA

<213> Homo sapiens

<400> 2836

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ggataaaanc ctaagagttt gggaatggga tatccctgtg gatttcaagt acatagcaga 60
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gaaaaaaatt ttaagggcc atatggtagc aggctatgct tgcaggtgg acttttcacc 240
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gaccacaaaa ctctacagtc gatttaaagc tcatgataaa gtgtgtatag gtgcagtgtg 360
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tatttaatta ttaaattgtat ctgatgataa ctigatttac agataatgtt gatgacattg 540
accctttgtt taaaaaaga aactgtaaat ttgacataat ttcatttgca acttcatttt 600
gttttttata aatgttattt atacagaaag ttg 634
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<210> 2837

<211> 644

<212> DNA

<213> Homo sapiens

<400> 2837

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ggaggaggcc gcagcagtcg ccgcgcgaac atggcggccg aaatccactc caggccgcag   60
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ctgctcatcc ccaaggagga cggcgtgata acggccagcg aggacagaac catccgggta   180
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tgctctgcta tggcttacca tcatgacagc agacggatat ttgtgggcca ngataatgga   300
gctgtaatgg aatttcacgt ttctgaagat ttttaataaaa tgaactttat caagacctac   360
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ttcgttggtg attattctgg gcngatcacc ctgcttgaaa cttgaacaga aaacgtgttc   600
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<210> 2838

<211> 539

<212> DNA

<213> Homo sapiens

<400> 2838

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gctttcccag ctagtcgaat cactggtgca cctccggaat ccgaggttcg cattgctctc   60
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agctctgagg cttctttcct ganaaaaaaa tttggaagtc cgtgactgtt tcctggagga   180
gctganaana ggaagctcac ttccggcgta gggaggcttt ctgacccgga atggaggagg   240

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cggagganct gctcttggag gggaagaagg cgctgcaact cgcccgcgag ccgcgcctgg 300
gcctggactt angatggaac ccttccggag aaggctgtac gcagggcctc aaanacgtcc 360
cacccgagcc gacccgagac atcctcgctt taaagancct tccccggggc ttggcccttg 420
gcccctcact cgccaaggaa cancgcttgg gggctctggtg tgtcggggac cccctgcagc 480
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<210> 2839

<211> 764

<212> DNA

<213> Homo sapiens

<400> 2839

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tcgggcgaan agcggccttag ggcctcaccg cgacctggct gagcttcagt cattgtctat 120
tcctggaact taccaagana agatcaccca cctgggacat tctctgatga gtttaacagg 180
tctgaaatct ttggatctct cgcgcaactc cttggttagt ctggagggca ttcagtacct 240
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cggctccacg ccttaaccga gctcgtggat gtggacttcc ggctgaacce cgtggtgaag 360
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gatcgccccg tgagagcaag cgagcggaag gcttcccgac tgcattttgc atcagaggac 480
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gcagtcctga acctcattgg cagaatgcga atgggggaact cggcaggnc tccgggaaca 660
cgaacttcac cagaaagggn gtnaggccca atctcgttgg ttcccaaaaa tccaaacttc 720
ttnttgaacc ccgccatttg gttacantta ccagttnttg ggga 764

<210> 2840

<211> 572

<212> DNA

<213> Homo sapiens

<400> 2840

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gatcgccgag gcggcctcag gctccctagc cccttccccg tcccttcccc gcccccgctc 420
ccgccccggg ggccgccgcc acccgcttcc caccatggct ctgaagaaaa tccacaanga 480
attgaatgat ctggcacggg accctccanc acagtgttca ncangtcctg ttggaaatga 540
tatgttccat tggcnactac aataatgggg cc 572

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<210> 2841

<211> 592

<212> DNA

<213> Homo sapiens

<400> 2841

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ggtacccaaa anattaaatg ttacatgtcc ttttagtcct tgaccaggtc tagccttggc 180
agaagcaagg gagccactaa gccaaactcc ctgtgcanac agaccatgtt tcaaggctgg 240
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ttttccctct gaagcagctt ttgcttagaa aacagtcctt tcactctgcc tttcctccta 480
acttcctgtg cctcttcatg ttctgtcan gctttttaaa gcaacgaagc tgttgkanaa 540

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cttaaactcct tgcaactgaa aaataagcta cttnaaggcg gtagaaatcn nt 592

<210> 2842

<211> 774

<212> DNA

<213> Homo sapiens

<400> 2842

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 aaggatttga ccaaacctgt ggcaacaatc tctgatgaac cagacatatt atataagcgc 240
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 atgagaacac tttacagatg tttagagtta gaacatctaa ctggaagcac agcagatgtc 480
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 aggtgggcca aataaattat gtttaantgg aaaatgcttc ccactnaaaa taattganc 720
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<210> 2843

<211> 565

<212> DNA

<213> Homo sapiens

<400> 2843

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 gtacttttca tggatgcatgg aaggaaagcc aatgcgcagg tgtaccaaca ttcgaccagg 180
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 tatgtttaca ggagaattgg cagagagccg tcagacagaa gtagtgatcc gagacattga 480
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<210> 2844

<211> 704

<212> DNA

<213> Homo sapiens

<400> 2844

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 gttaaaatat attttttgta aattgtgcca gaanggcatt tgccaaaaaa atttgtgcag 660
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<210> 2845

<211> 505

<212> DNA

<213> Homo sapiens

<400> 2845

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ctgaacttca tacgctacct ctccatttc cgctgcgtgc acagaggggc tgattttgcc  180
aagatgagga ccaccacagt acgcaggctg ctgccagagt cctggggcctt cctttgtccc  240
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gggtgcatgg ttggctgggt ggataangat cttgctccan gcatcgcana ttctcttcgt  480
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<210> 2846

<211> 637

<212> DNA

<213> Homo sapiens

<400> 2846

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gatttttgat gtttttactc aggtgattgg cttgtatagc tgaaatgctg atgaaaagga  180
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ctcgggttca agtgatgctc ctgcctcagc ctctgaata gctaggatta caggtgcccc  360
ccaccacgcc cagctnattt tttgtatttt tagtaaagat ggggtttcac tatgttgggc  420
    
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agtctggtct tgaactcctg acctggtgat cctcctgcct cagcctccca aagtgctggg 480
 attataggcg tgagccactg cgcccagcct gtcccttttt cttaaataac ctttttggtg 540
 aggaccatta tnggtttgta ccaggataag gttgtaaagt tnatcataat atnctcttat 600
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<210> 2847

<211> 801

<212> DNA

<213> Homo sapiens

<400> 2847

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 aacataggga ttcaaaaaaa caaaaacaaa agaataggaa taaataaccc ttaattgtat 180
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 aaaaaagaca ttaataaaaa atctgaaagg ggcngggcgc catnggctca cgcctgttat 720
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<210> 2848

<211> 506

<212> DNA

<213> Homo sapiens

<400> 2848

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caagagcaga gctttcaatg gaaattttta acnagtggna tcnagaccct gaagcatttc 180
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ctggaaggcc caagaacatt tttttttttt ttttgaaatg gagtctcgct ctgtcgccag 420
gctgggagtg nngtggccna tctcagctag cttgcgnagc tctgcctccc aggttcacgc 480
cattcnctg cctcagcctt ccgagt 506

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<210> 2849

<211> 590

<212> DNA

<213> Homo sapiens

<400> 2849

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gcagaccacg ttagaacctc ggctcctgga gtagcanaac ctcggcttca atgggaccct 60
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ctgacttccg acagtanatg acccttctga ctcacagttc tactgctggg aaatgcctcc 480
agagctgctg cccaccctct ctgcatcctt ccaggtcact ggggtgttgaa tcangngaag 540
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<210> 2850

<211> 760

<212> DNA

<213> Homo sapiens

<400> 2850

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gggcagccaa ggcggtggctg atcacggccc gcagcctcta cccggcagac tttaacatcc   180
agtatgagat gtacaccatc gagcggaatg cagagcggac cgccaccgcc gggaggctgc   240
tgtacgacat gtttgtgaat ttccanacc agccggtggt gtggagagaa atcagcatta   300
ttacatcagc attaaggaac gattacagga caaacaacc cnatttttaa gaagtttatt   360
tgaaactctt cctggtcgag tccagtgtga aatgttacta aaggtcacgg aacaatgctt   420
caacacgtta gaaacgatca gaaatgttgc ttctactttt gaggcgcttc cctnaaacgg   480
tggtgcancn tggggttggc cttggggang cactattana agctgaaact attgaagaac   540
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ttaacaacca tgattttcga ttacctgcn atttattgta taaagttctt gaacaaagca   660
gcctgaattt tatatcaatt attgtcctag gtctactcca attagaaaat cncntccag   720
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<210> 2851

<211> 860

<212> DNA

<213> Homo sapiens

<400> 2851

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ctctctctct ctctcctgct gcattgtgaa gaaactgctt gcttccctct caccctctgc   60
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atcagaagat tctatgggga aaccatttta aaaataggat gcattttttt cttttctgca 180
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 aagcaatcac tcctgcagtt tctgaacact acacagacgc caggtnnctt cttcaggaga 420
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 ccttggcctc gatcctggct ccagctctgg ctttttgtt cccaaanggt tncitttggg 780
 aaaacttctt ttttcctatg ctgaaattta tngggaaggc aaaaattaat tcccttgata 840
 ancnaaacct ttaaactccc 860

<210> 2852

<211> 542

<212> DNA

<213> Homo sapiens

<400> 2852

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 attaccttat taaagctgta tatgactact gggtagagaaa acgtaaaaac tgcngggggc 180
 catccctcat tcctcagatn aaacaagaga aaagagatgg ctctaccaac aatgaccctt 240
 atgttgccctt tgggagaaga acagagaaaa tgcanactcg aaagaatcgt aagaatgatg 300
 aagcctctta tgaaaagatg ttgaaactga gacgagaatt tagtagagcc ntaacaattt 360
 tggaaatgat taagagaaga gagaaaacca aacgagaatt attgcactta accttagaag 420
 ttgtggagaa aagataccat ttgggagact atgggtgtga aatccttaat gaagtttaaa 480
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cc

542

<210> 2853

<211> 628

<212> DNA

<213> Homo sapiens

<400> 2853

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caggtactgg agatggagag catggnagac ggccgccgcc ggctcggcag gactggccgc  120
cgaggtccga ggcagcggca cgggtggactt cgggcctggg ccggggatct ctgcaatgga  180
ggcgagcggg ggcgatccgg gcccagaagc cgaggatttc gaggtcagct ctcactgctc  240
agagctgtcc tggcggcaga acgagcagcg gcgccagggc ctcttctgcg acattaccct  300
gtgcttcggc ggggctggag gccgcgagtt ccgggcccac cgctcggtag tggtgccgc  360
caccgantac ttacgcccc tgctctcggg ccagttttcc gaggcccgtt cgggacgggt  420
ggagatgcgc aagtggagct ccgagccggg gcccgaaacc gacacagtgg aagccgtaat  480
cgantncatg tacaccgggc gcatccgcgt cagcacgggc agcgtgcacn aagtgcttgg  540
aattggccga caggttccta ctcattcctt taaaanaatt tgtgganaat ttctcaagaa  600
aaaaacttcn tctctcaaat tgtgtngc                                     628
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<210> 2854

<211> 816

<212> DNA

<213> Homo sapiens

<400> 2854

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ttttaaata aaaagagtgt ttttaaatt cttaattctt taaaatacct ctagaaaagt   60
catatagtat gtctctaata gctaaaatga agtagcagtt gattcttcat atcttcttac  120
acacattaaa tgaaacataa tatTTTTgtg agTTTTcttg tttaatggaa actatactgt  180
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taattgcatt ttagaaaagg tgaggaagat ggaaatgtat cagctgaagg tgactcagtt 240
gaggcaggaa gtaaggaagc ctttccctga gagaaagctt tggtttagctt ttgtgcgtgg 300
cttgattggt ccatgttatt gagggatgct tgagtacat agagaaatcc ttcaacaacg 360
tgaagagaac ttttaagcaa ttatatacct naattaaaca ttgacaagaa tgttaattta 420
acagacaaat tttgtctgtt aatgttacag acaaaaactg ttagagaaag anaacacaat 480
tgggactttt tattttaaat tgacatactg taaattcttt tgtattgagc atataaatgc 540
aaccnaacc agtngtttct aacagttaat ttatgcatgt tttgagtttc naatattaat 600
ttagtaattc cacaactact tgaatttctt tatcatgaat ctctgcattt ctgtgtcttt 660
cctgtgccta tcccctattg ttctcccaaa aacctaagtt ncntgaatat anttttcctc 720
attgggtttt ccttgggttg gggatcattt atttttnaat atacccccct ggtccaatat 780
tcctaatat tccttgaaat ttncnctcn ttnnat 816

<210> 2855

<211> 753

<212> DNA

<213> Homo sapiens

<400> 2855

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catagagact ctggatattc ctgagccacc acccaattct ggatatgaat gtcagcttcg 120
tttgcgcctt tccacaggca aagacctcaa gcttgtgggt cgcagcacag acacagtatt 180
ccacatgaag agacggttgc atgcagcaga gggagtggaa ccaggtagtc agcgggtggt 240
ttttcttggc agacctctca ctgacaaaat gaagttcgaa gagctgaaga tcccaaagga 300
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aactgagccc tgttggccag ctcccacatc cctctgctcc tttttatggt tcttgttgtc 420
atttctact ctgcggcgtg aaatctattt cactgctcta aattccctat gaatggattt 480
agttctgagg aattaccagt gaaaaattcc atctgtgatg gagaccaacn aaaattatta 540
aacacaaaga gccaggcttt ganactcatg ttattaccat ttctaatttg aaaggnngtt 600
tagaaataga ttaccattta ttttagaaca ctccacaact atgttatggc tatatttcag 660

tgacttggac tgttaaatga aacattgcat ccatgaagga cagccccag cccctttttg 720
aaatacngaa attttttttna naaaaatntn tcc 753

<210> 2856

<211> 649

<212> DNA

<213> Homo sapiens

<400> 2856

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cgcagtcagg actcttcccg caacccctcc ggctcccttt ccgcacgcct cgaggcggcg 180
gcggccaccg agacagcagc gcaccttccc ccatcccttc cccttatccc ccagcccaaa 240
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caggcccaga tgcgcgcgat gctggaccag ttgatgggca cctcccggga cgganataca 360
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tgtcctcatg atgtcctttc tggaactaga atggatcttg gagaatgtct gaaagtccat 480
gacctggctt taagagcgga ttatgaaatt gcatccaaag aacaagattt tttctttgaa 540
cttgatgcca tggatcatct gcantcattc attgcanatt gtgatcgtn aacagaaagt 600
ggccnanaaa agattagcag aaactccaga agaaattaat gctgaaatt 649

<210> 2857

<211> 582

<212> DNA

<213> Homo sapiens

<400> 2857

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gttaacgcga ggccccggcc tcgggtccccg gactaagccg tgaccccggg tgccatnaag 120

cangagggct cggcgcggcg ccgcggcgcg gacaangcga aaccgccgcc cggcggagga 180
 gaacaagaac cccaccgcc gccggcccc caggatgtgg agatgaaaga ggaggcagcg 240
 acnggtggcg ggtnacggg ggaagcanac ggcaagacng cggcggggtc ggctgaacac 300
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 naaaaagcgg tticaggcaa agaaccnaca ttcgtgctgc gggccctgcg gatnctncct 420
 tccacatcac gccgcctcaa ccactatggt ctgtataang ctgtgcangg cttcttact 480
 tcaataatg ccactcgana ctttttctc cccttccttg gaacagccat ggacacanaa 540
 gctgatttac anttccgtcc ccgcncggga aaanctgcgt ca 582

<210> 2858

<211> 464

<212> DNA

<213> Homo sapiens

<400> 2858

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 gcgcagccag aggagccgcc gcagtagctc cccgcctcc cgggctgagg gcggaaagaa 180
 aacatgcata tatgattttc ttctgatgaa acctaattgn ttcaagaaaa agaattcttc 240
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 gtactgttgc ttagtttttg gttcagttac tttgatgtgg ttacaanaag aattttggct 360
 gtaatggatt tcatacattt ttaatgtcta atttaatagg gatatanaca gtttggttaa 420
 accaacattt ttggacgaag anangctatg gaaatnaana aaga 464

<210> 2859

<211> 478

<212> DNA

<213> Homo sapiens

<400> 2859

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gccgctagcc tatctgagtc gccggcttct gcgctagggg ctcccaccgc ctccgcaggc 180
taaggagccg ctgccaccaa cgagctgtga gggttactat gctccctctt tgccgccgctc 240
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agaagagaag taaaattcaa caaaaattta tgtgtggagt tccttcttaa aagaagaaaa 360
aagtgattat ttagactatg gatcggagca aacggaattc aattgcagga tttcctccac 420
gtgtggagcg tcttgaanan tttgaaggan gtggtggang agaangaaat gtgagcca 478

<210> 2860

<211> 762

<212> DNA

<213> Homo sapiens

<400> 2860

ggaaaaatgt gtgcaaagaa atgatggccc ctgaggacag actctgggcg atcacagtca 60
cctgtgaagg ttttatnaag atgaaatctg atgaaaatgc aagccttcag caaaccataa 120
aaccctgtat caaggtaga gagaaggaaa agccttcctt actgaagctc tttcgggaca 180
acacggccat tccaacctct agtgactcta cgtaggtgta aacttttttg tgggcattca 240
aagaaacact cagcatcctt ccataaata tatttattaa cttctacaag caatctaatt 300
tccttaatta caagcctaatt ttaatttccc tttaagcctt tttgttaatt ttctttggan 360
atttttcacg tctttcattt atttatttgg agacagagtc tcgctctttt tcatgtcttt 420
aattaattaa ttaatttatt ttgagacgga gtcttcactg tgcactcan gctggantgc 480
agtggcgcaa tcacggctca ctgcaacctc tgcctccan gtccaagtga ttcttctgcc 540
tcagcctctc angtnctgg aattacaggc atgtgccacc acgccccgct aaattttgta 600
tattttttan tagaaacagg gtttcacat attggccagg ctggtctcaa actcctgatc 660
tcaggtgatc ccctgcccc gctccctga aattgttggg attacaggca tgaaccacc 720
ggngccccga ncttcttgtt nttttnaaaa anttggccca aa 762

<210> 2861

<211> 690

<212> DNA

<213> Homo sapiens

<400> 2861

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atctaagag gagcaggtg cggcgcccc gaagcgctcg ctccccgagg tgcgatctan   60
tctgcagta ggcgggcccg ggccacaccg cggccgcccc agccagtgcagg agggccaggg   120
gcctgacatc gctcccagcg ctccgangacc gaggcctgct gtggangaca ccgtgctccc   180
tcgggacctg ctctggattc cggccccggac gtccccttgg agctctgcat ctccaacctg   240
gaacccaacc cagaagtctc aagtttgacg catcacgtgg cgtgcggatc cactgagggt   300
ccacagagag gggcgcccat ctctgcgtc tcagttatcc tgggtgttggg aattctgtgc   360
cctaaagaat tccgactcac atccgaacgg ggatctggtg gaatcnaggg tgaaagacca   420
gagggacaat gttctactat cccaacgtgc ttcagcgcca caccggctgc ttgcccacca   480
tctggctggc ggcgactcgc ggcagccggg ttggtgaaac gcgaatacct gaaggtgaat   540
gtggtgaaaa cctgcgaaga aatcctcant tacgtgctgg tacgaatngc aacccccgan   600
cccggccttg ccgcgggccc gcttctccct ctatctctca ncccaacttc anatctgtgt   660
gatccgcgtc tnttctccac caatgccttt                                     690

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<210> 2862

<211> 751

<212> DNA

<213> Homo sapiens

<400> 2862

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gtacgccgat tccatattgg cgccggcgcg gagcgccgag gggcagcgcg gggtcgccat   60
ggctgagctg cagcagctcc ggggtgcagga ggcgatggag tccatggtga agagtctgga   120
aagagagaac atccgaaga tgcagggtct catgttccgg tgcagcgcca gctgttgtga   180

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ggacagccag gcctccatga agcaggtgca ccagtgcac gagcgctgcc atgtgcctct 240
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 tcaggtgaag cagcagctgg acagtttgt gaccaagtgt gtggatgacc acatgcacct 420
 catcccaact atgaccaaga agatgaagga agctctctta tcaattggaa aataaaagta 480
 tttgccagtg gccatcaggc tgaaggcaag aatatat tttataaggga attgggaatt 540
 ttagtctttt aagccnagtt tacgaatgaa naaatgaagg atggccccna gcgtaaggca 600
 tatgtccttg ccnctggaca ctggttattt atgtttcagt ccctaaaaaa atgaaatgga 660
 aaaaaagtgg tgctnaaatc caantcaaaa atattaacng ggaaaatttt taaaanccta 720
 ttantttccc tgtgggccag ttgctttgtt c 751

<210> 2863

<211> 823

<212> DNA

<213> Homo sapiens

<400> 2863

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 cgccggttta tttgaggctt ctaatgtgag gaaaaacacg gaatgacaag tgtgggaaag 180
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 cctgggttgc taaggaattt ggtctgctg ctctctggg gaaaatttgg taanctgggt 720

acaaggaagt ttaatnaaca aaggctaaaa tgaaaatcat acattaactt cccattatt 780
ttgtnaacat tttctttaac ataccaaaca nantttccaa tnt 823

<210> 2864

<211> 727

<212> DNA

<213> Homo sapiens

<400> 2864

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cgtccccggc gtcgaccccg agccgccgcg gcagccggcg tggaagggcc acccccgcgc 120
agacgcctcg gagtgaggat gccaggatcat ctccctctca gagacgtaga ggcgaggatt 180
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gcaaagaaaa ctttccagan atttcttcac cgtttttattg acccctctgg ctaaagaana 600
anaaaatgtt ggcatagata ttactgaacc tctatactg caacgacttg ggganattaa 660
tgttattggt ganccatttt ttaaattgtg aacttggtga nccccctcna nttcattttg 720
acaaaaa 727

<210> 2865

<211> 348

<212> DNA

<213> Homo sapiens

<400> 2865

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 ccctccagat gacattggct ccagctttta tcctgaattg ggaagttaca gttctcggga 180
 tccttctgtc atagaaactc acatgagaca aatgcgctca gcttcaattg gtgtactagc 240
 cctctcttgg taccacactg atgtaaata atgaaaatgg aagaacctac tgataacttg 300
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<210> 2866

<211> 732

<212> DNA

<213> Homo sapiens

<400> 2866

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 tttgacagaa gctgtccctc aaaagcaaac atgcaatana agaaacagat ctcaatggag 120
 tctcactctg tcacccagga tggagtacag tggcgtgatc tcggctcact gcaagctccg 180
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 ttcacatgt tggccaggct ggtcttgac tcatggcctc aagtgatcca cctgcctcgg 480
 cctccgaaag tgccggggat tacaggcgta agccactgtg cctggcctta aatgggtaaa 540
 tttcatatgg tatatgaatt atatttcact aaaactttta gaaaacatta tacagtactg 600
 ttcaaatttt aagtgggtcca atttaaagtc actattggta tacaantcta tgttaatgtc 660
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 atattatatg cc 732

<210> 2867

<211> 678

<212> DNA

<213> Homo sapiens

<400> 2867

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cgtcgatata tggaagaaga atatgaggca gaatttcaag taaagattac agccaaagga  180
gacattaacc agaaacttca aaaggttata cagtggttgc tggaagaaaa atttgtgtgcg  240
ctgcagtgtg ctgtatttga taagactttg gcagaattga aaacacgagt ggaaaagatt  300
gaatgtaaca agaggcataa aacagttctc actgaactac aggccaagat agccagggtta  360
accaaagcgt ttgaagcagc caaagaaggt cttagaaaa gacatgaaca tccaccaaac  420
ccaccagtat caccaggaaa aactgtaa at gatgtcnaca gcaataatna catgtcttac  480
agaaatgcag gcacagtgag acagatgctg gagtccaaaa gaaatgt nag cgagagtgc  540
ccacntcct ttcaaactcc tgtgaataca gtatcttcaa ccaatcttgt cntcctcca  600
gcagttgtca gtagtcaacc taaattgcnn actccagtga cttcgggttc cctccacngc  660
aacgtcngtt cttcctgc                                     678

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<210> 2868

<211> 703

<212> DNA

<213> Homo sapiens

<400> 2868

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atgctgggcg gcgtcaggtg agcgggtggc gctgggcctc aggtaaccat ggagaaagag   60
ctgcggagca ccattctttt caatgcctac aaaaaggaga tatttaccac caacaatggc  120
tacaaatcca tgcagaaaaa acttcggagt aattggaaga ttcagagctt aaaagatgaa  180
atcacatctg agaagttaaa tggagtaaaa ctgtggatta cagctgggcc aagggaaaaa  240
tttactgcag ctgagtttga aatcctgaag aaatatcttg acactgggtg agatgtcttt  300
gtgatgctag gagaagggtg agaatccaga ttgacacca atattaactt ttactagaa  360

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gaatatggaa tcatggtaa taatgatgct gtggtagaa atgtatatca caaatatttc 420
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 ggaaaggctg tgcctgggat cattgatgan gaaagcagt gaaacaatgc ccaggctctc 540
 acctttgtgt atccttttgg tgccacattg agtgtcatga aaccagcagt ggcggttctg 600
 tctacaggtt ctgtcngctt cccacttaa cagaccatt ttgggctttc taccactcaa 660
 aaaancnagg tggggaaact gggccgtgct nggttcatgt ccn 703

<210> 2869

<211> 816

<212> DNA

<213> Homo sapiens

<400> 2869

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 tggccctgcg cccgttgcta ctgaggcggc gtgctctgca ttcttcgctg tccaggcctg 180
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 gancccaaaa tcnngaaagt caccgtgaag acccgaagg aaaagganga attcgccgtg 420
 cccgaaaata actccgtcca gcantttaag gaagaaatct ctaaactgtt taaatcnct 480
 actgaccaac ttntgttgat atttgctgga caaatittga aagatcaaga taccttgagt 540
 cagcatggga attcatgatg agacttactg ttcacctgt cattaaaacn cnaaacangg 600
 cctcaggatc nttcagctca gcaacaaat acagctggaa gccatgttac tacatcatca 660
 actcctaata gtaactctac atctggttct gctaactagc aacccttttt gggtttaagt 720
 tggccttggg ggggaatttg caaggtctga attanctngg ggtttngaaa tactaaccn 780
 ncttcctctg aaatttccga atcccgaatg ccggcg 816

<210> 2870

<211> 717

<212> DNA

<213> Homo sapiens

<400> 2870

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gaggaaataa ttaagcttat taaagacaaa aganaggatg ttagttttcg aaacattggc   60
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gatagaaaag gaccagcaga agtagacact gtggatgcat tccagggtcg gcagaaggat  180
tgtgttattg ttacgtgtgt cagagcaaat agcatccaag gttcaattgg attcctggca  240
agtttgcaga gattgaatgt caccatcaca cgagccaagt acagcctctt catcctcgga  300
catttgagga ccctgatgga aaaccagcat tggaatcagc tgattcagga tgctcagaag  360
cgtggtgcc a ttattaagac ctgtgacaaa aactatagac atgatgcagt gaagattctg  420
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tccagacccc aggggtggtt gccagcagc aagctagaca gtggatttgc caagacatct  540
gttgctgctt ctctatacca cacacctct gactccaagg gaaattactc ttactgttac  600
ttcnaaggga ccctgaaaga actcctgttc atgaccnact tccnggaacc ncgaatgctg  660
aaaaagatng ggctttgaag tccaaggaag aatttccttt tggggatccn caacccc   717

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<210> 2871

<211> 552

<212> DNA

<213> Homo sapiens

<400> 2871

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tctaaaaatg cntcctgaag gtccctaatt ttctaaatct gggaaaccac ttccgaacca   60
gctactttta aatttctcag actggctggg ggaaaataga aacttagcca ctctaacatg  120
gtagatggag gcgtgaactg tnataaccct nagatgggta tacagaattt ttctccccna  180
gtagcagtca cattgcaaaa agattatatt gctattgaat tttaagggtg agattaaatg  240
tctgtnatat gtgcataatc ttccattcct gggatccttag tcttgacatt ttctttttaa  300

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gcatanaaca cccctccttt acaaagaang tnatctgtgg aaggaaagac atgctaatat 360
gatggtttta attataattc cctcagaacg gaatatatcc attaagtaca tggcatatat 420
atggctatag aaactgctac ntgtatttaa tttattgcct taatTTTTTT ttatctctct 480
cnggatagac cntttagaaa ctatccagca actcctaact gcagtngtaa agaanatcca 540
ttaatcactg cn 552

<210> 2872

<211> 760

<212> DNA

<213> Homo sapiens

<400> 2872

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ctcgggctgc tcacgtctct tcggagagcg cgcacatggc gactcaggcg tactccctca 180
gctacgcagg gtgcaacttc ttgcgccaac gtctggctct gtctaccctg agcggggcgcc 240
ccgtcaaaat ccgaaagatt cgggccagag acgacaaccc gggcctccga nattttgaag 300
ccagcttcat aaggctattg gacaaaataa cgaatggctc tcgaattgaa ataaacaaaa 360
caggaacaac cttatattat cagcctggcc tcctgtatgg tggatctgtg gaacatgact 420
gtagcgtcct tcgtggcatt gggattacc tggagagtct tctttgcttg gctccattta 480
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catttgaaac tgaatattgt ggcgaaagg aatgcctccc ggaaagaaga agcgaaatgg 660
ttttctcatg tctgttaagg aangtcttga aancccatc cactcccaga ttcangaaaa 720
aatccaacgt tttaaaaaga aanggcgttc ccngttacgt 760

<210> 2873

<211> 896

<212> DNA

<213> Homo sapiens

<400> 2873

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attaatatgt gctcatatct tactcaacat cagagagtct gtacttaata aaaccattat   60
agatgcaact agtgtcaaaa gatctttcag aaaataaaag cttttaaaagt gaagaagata  120
attcattctg aagacaaaca ttacaaatat taagagggtt gtagtaccat tacttgcatc  180
acagatctta ttgtacacat tttgtactaa agaaaaccct gaagcagttg ctcaaatact  240
gttcaacatc agaaaattta tattggaaaa aacccttgga aaatgtaata aatttgtaaa  300
aacagttttg aaaaactaca gcttataaaa catgagggtc tataatgctt ggttgatagt  360
acaaagttta ttcnecatca gggaatttat attggagaaa aaccctacaa atgtnatcag  420
tttggaaaaa cattttttaa aaaaccacag catagaaaac accacagggt tcatactaaa  480
atatgttttt gcagatgcag taaaaatgaa aaaaatttaa tccgaaatta agtttatgta  540
aatatctgan aattcacagt agaaatatct aaggcgcgga cacttcagac attacactaa  600
atcagtgcta agtncagaaa acaacncnaa ataaaacttg gtggataaat tatttgtnta  660
tnacattaaa agaagtagaa gattttcagt tataattacc attaaaagtt tacttttatc  720
ttgaaaaaaaa ttactgaatt tttaaattaa gtggaataat gatgttattt aaactcccca  780
aataactttt atgctccttt ttccattcc cggctaatan ttcncatgt tgaaaagcat  840
gttgaaccaa ttgntggctg gcccennaag aatttgaaaa aaattccttt ttattt      896

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<210> 2874

<211> 560

<212> DNA

<213> Homo sapiens

<400> 2874

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acacgccgcg ctgaggcccg cgggcccgctc atggaggcgc ccaccgtggg agacgcccc   60
ccgacccttc gccccttcg gcccggccc ctgccctggt tccgttgcg gcccgggatg  120
tggcgcggtt gcgcgaggag caggaaaagg aagaaggtag ataatgacta taatgccctt  180
cgagaaagac tcagcacctt gcctgataaa ttgtcttata atataatggt accatttggc  240

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ccttttgcct tcatgccagg aaaacttgtc cataactaatg aagtctctgt tttactgggg 300
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 gaacatgtta gaaaaacaat agatgactta aaaaaagtga tgaaaaattt tgaatccaga 420
 gttgaattca cagaagattt gcagaaaaatg aacgatgctg caggatgatat tgttgacata 480
 cganaagaaa ttaaatgtga cttcgaattt aaagcnaaac accgaattgc tcataaaccg 540
 cattccnaac caaaaacttc 560

<210> 2875

<211> 602

<212> DNA

<213> Homo sapiens

<400> 2875

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 atcaagatga ggaggaaggt ctccaatctg atgggtgttat tgatgatgca ttgacctgt 120
 ggctacagga ctcaacacag acattgcaat gtattacaga actgttcagc cattttcagc 180
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 atttgattac ttttaatcct gtgggaagat cagctgttgg ccatgttttt agtctggaga 300
 aaaatctcca aagtcttatt actctaattg agtactattc caaagaagcc ttgggtgatt 360
 ccaaatctaa gaagtcngta gcttataatt acgcatgcat acttattttg gtggtggttc 420
 antcttcag tgatgttcaa atgctagaac aacatgcagc atctctcttg aagctttgta 480
 aagcagatga aaataatgct aaattgcaag aacttggcna gtggcttgaa cctctgaaaa 540
 accttagatt tgaaattaac tgcaccccaa acttaattga gtttgtaag canaatatcn 600
 at 602

<210> 2876

<211> 489

<212> DNA

<213> Homo sapiens

<400> 2876

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gggggctgct gggaaggccg gcgggatgga ggcggcggga ccggctcgcg ggtgcgggtc 60
cgggtgaagc gggaggcagc cagagtcgga gccgggcccg agcaccaggc gcaggcccgg 120
cgcccgccctg cccgcaccct cgtcctcaca gacgccacag ccatggccat gatggtgtnt 180
ccgcgggagg agaagctgan ccaagatgan atcgtgctgg gcaccaaggc tgtcatccag 240
gggactggag actctgcgtg gggagcatcg tgccctgctg gctcctctgg ttgcacctga 300
ggccggcgaa acctagcctg gctcgcagga tcgctgcac ctcctgcgtc gctccctgga 360
atccattgag cttgggctgg gggaggccca ngtgatcttg gcattgtcga accacctggg 420
ggctgtagaa tccgagaaac anaagctgcg ggcgcacgtt cggcgtctgg tgcaagaaaa 480
ccantggct 489

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<210> 2877

<211> 826

<212> DNA

<213> Homo sapiens

<400> 2877

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attaaatgat tataaactaa ggaaaaggaa gacttttgaa gataatataa gaaaaaacag 60
gactgtgatt agtaactgga taaaatacgc acaatgggaa gaaagcctaa aggagattca 120
aagggtcga tccatatacg agcgtgcttt agatgtagac taccgaaata ttacactctg 180
gctgaaatac gcagaaatgg aaatgaagaa tcgccaaagtc aaccatgctc gaaatatctg 240
ggaccgggcc ataacaacgc tgcctcgagt taatcagttc tggtacaagt acacgtacat 300
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ggatcgggcc cgcaccattt atgagcgatt tgcctcgtg caccctgatg ttaagaactg 480
gatcaagtat gcccgccttg aaaaaaaca tgcttatctt gcccatgcac ggaaagtgtg 540
tgagaganct gtggaattct ttggagatga acatatggat gagcnccttt atgttgctt 600
tgccaagttt gaanaaaatc agaaanaatt tgaaagggtt acgantgatt tacaagtttg 660

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ccctggacng aatttccaaa ccagatgccc cagaaacctt ttaaaattat tccccctcctt 720
 tgaaaaaaaaa tttnggtgaa tnggcggggg tttttaaaaa tttctttgtn aagccaaacc 780
 ggaaaattcc ccgtttccaa aaaaaaaaaa ntttaaaggg cgaaat 826

<210> 2878

<211> 662

<212> DNA

<213> Homo sapiens

<400> 2878

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 gaaggcctta ttaacaaaaa gttacccaaa gaacttctgt taagaatatt ttccttcttg 120
 gatatagtaa ctttgtgccg atgtgcacag atttccaagg cttggaacat cttagccctg 180
 gatggaagca actggcaaag aatanatctt tttactttc aaacagatgt agagggtcga 240
 gtggtggaaa atatctcgaa gcgatgcggt ggattcctga anaagctcag cttgcgaggc 300
 tgcatgtgtg ttggggattc ctccttgaag acctttgcac agaactgccg aaacattgaa 360
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 cagatcacga aggatggcnt ccaagcactg gtgcgangtt gtccaagcct gaaanccctg 600
 ctctgaagg gctgcccncg gttngaaaat gaagctctga aacacattca aattactgcc 660
 nt 662

<210> 2879

<211> 557

<212> DNA

<213> Homo sapiens

<400> 2879

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 antaactgaa gtgtaactgt taaatgcttg tatactantt tttctttctg attgtcagtg 120
 atttataagc tataaatgac caaggctctc agactgcttt tagcatctgc aacttaaaaa 180
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 tcttcccaaa tgccaanagt gcagcgggtg ggtgagatnc anatattcat ttattttctaa 300
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 tagttgattc caggcttatt tgacttaaag tcaactgaant ggaaactaag aantggcagt 420
 tagtgtttta cccagcattt ctgccttctc tcttttcttc atgtgttttt gtctctagcc 480
 tatgtgtatt tgtgtaaaat aatgtgggat accngaana tanattttaa aggaccaant 540
 ggtnaaattg ggcccaa 557

<210> 2880

<211> 700

<212> DNA

<213> Homo sapiens

<400> 2880

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 aaagagctac aaaggcaaaa aacaaatcta gatgatgatg tacctattct cttatttgaa 180
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 caaatgattc agcagtctca tgataatcca agtaactctc tgtgtgaagc acctttgaac 360
 atttcacgtg atactttgtg ttcagatgaa tactttgctg gtggcttaca ctcatctttt 420
 gatgatcttt gtggaaactc aggatgtgga aatcaggaaa ggaagtgtga aggatccatt 480
 aatgacatta aaagtgatgt gtgtatttct tcacttgtat tgaaagcaaa taatattcat 540
 tcataccat ctttactca cctcgataaa tcaagtcctc agaaatttct gagtaatctt 600
 tcaanggaag aaataaactt gcnaagaaat attgcgggtt aagtaatccc cctcaccaaa 660
 aaccagctgg canggtntgt ctccnggaaa cgttttgaaa 700

<210> 2881

<211> 640

<212> DNA

<213> Homo sapiens

<400> 2881

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aagaagatgc ctggagcagg cagcatcctc aaatggaagg taattgccct caaatcactt   60
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gggaggcatc gtgccagagc ctggggcaag aaagggtgc tatccaggaa tgcaggtgaa  180
attatagcta ttagccctgt cttagagtgt gaggaatatg tgcccccta cccctggcta  240
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ggaactcaaa gtaacatttg atttccaaa gagaacattt gcatttgtaa ctgtcagaaa  360
taggagagat catcaaagct aaatgaattg ggctataaac agtttgaaat atgtctttaa  420
attttaaaaa acatatTTTT tgtttgtttt ggggagagan gatcatttan actcaacaac  480
aaaacagaaa actgtgagtg ccattttgag acaagaccta cctggtcctt cccctcata  540
ctttctgcta ccccgtagac tccctctctc ctccagtc cagattatcc gcttggtttt  600
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<210> 2882

<211> 696

<212> DNA

<213> Homo sapiens

<400> 2882

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cagttatatt ctactctgaa agaaggcaac ccaccctggg aggtgacaga agcggttctc   60
tttatcatgg ctgctatagc aaagagtgtt gatccggaaa acaatccaac acttgttgaa  120
gtcctagaag gagttgtccg cctcccgag accgtacata cggctgtgcg ttacaccagc  180
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gtgttgggct atttgatgaa aggcctgtgt gaaaagcccc tggcttctgc tgcagccaaa 300
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aatggcatat cctcagatcc cacagtgttc ttagatcgcc ttgcagtgat atttaggcat 600
accaatccca ttgtggaaaa tggacagact catccgtgtc agaaagtcnt acaggaaata 660
tggccngttt tatccgagac tctnaattan cnccga 696

<210> 2883

<211> 625

<212> DNA

<213> Homo sapiens

<400> 2883

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tcaaagccac agacaggaaa tagaaagtgg aaaagtaata tctccttttc ttttccataa 180
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ctgcgggang gaaagtattg tattggganc acccttggga ccaggaagaa ggatgccagc 540
gttcacactc tgggaccctt aanacattgt cantgggtaa ggtggaagn cactgccana 600
agctgctgcc antgcctctg gggaa 625

<210> 2884

<211> 556

<212> DNA

<213> Homo sapiens

<400> 2884

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tagatgctgc taactgttcc tcggctgac gttttgtgac ccttctgctg cctacaatcc 60
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aaaggattgc cnaggccatt gaagttttgt taactctctg tggagatgat aactaaaaa 180
tgcattatgc aaaaatcttg acnactgtca agtgtgccac tcttatagaa cnacaattta 240
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ttgctgctga tgttttttga aaactcttga ttgattaac aaacttaaac cattgggttc 360
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ttttgcttta acgtccgata atagagaaca agtacagtct ggactgagaa tattattgga 480
ggctgctcca ctgccagatt ttcctgcttt ngtacttggg agaaagtata gcancanaca 540
atgcctattn acgacn 556

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<210> 2885

<211> 565

<212> DNA

<213> Homo sapiens

<400> 2885

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gtgctgggccc gcggggccgaa agatcgccag ggctgcgtat gcttgtggcg cgcccgcgga 60
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ccatgccaat agtggataag ttgaaggagg ccctgaaacc cggccgcaag gactcggctg 300
atgatggaga actggggaag cttcttgcc cctctgcca gaaggtcctt ttacagaaaa 360
tcganttcga gccagccagc aagaacttct cctaccagct ggaggcctta aagaacaaat 420
atgtgttgct cnaccccaaa acagaggag ctagtcgcca caagaatgga gatgaccccc 480

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cngccangag acgggcagtg agcacacgtt tgagaactgt ggtgaccgaa tccccgcccc 540
gcagaaatnc ttttcccacg ggagc 565

<210> 2886

<211> 539

<212> DNA

<213> Homo sapiens

<400> 2886

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gctacagttt ttgtgtttgc tgttgttata tatttccaag gatttcgcgt tgatctgccc 180
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cctcctgagt ccatgggcgc catctttgaa gatcctgtcc atgtcnttgt ttatatcatc 480
ntcatgttgg ggtcatgttc attcntctct aanacatgga ttgaagtgtc tggttccnc 539

<210> 2887

<211> 670

<212> DNA

<213> Homo sapiens

<400> 2887

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gtgggtgggtt ccatgtgatg gtggagtagg aggcaggtct ccgcggttca tctgtgttgc 120
tctaaatgac actgcttcat tattttgatg gctgganaat atttcctagt gtatgtatat 180
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<210> 2888

<211> 589

<212> DNA

<213> Homo sapiens

<400> 2888

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 gaccaccttg tnggcgctgc ggcgggaggt ggagganctg aaaancagcc tgcgaaggct 540
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<210> 2889

<211> 814

<212> DNA

<213> Homo sapiens

<400> 2889

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<210> 2890

<211> 739

<212> DNA

<213> Homo sapiens

<400> 2890

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 ttgttctgaa ggggtgtccga aaagctgggt tntgcactgc tcacggaccc atgttggatc 660
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<210> 2891

<211> 464

<212> DNA

<213> Homo sapiens

<400> 2891

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<210> 2892

<211> 575

<212> DNA

<213> Homo sapiens

<400> 2892

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<210> 2893

<211> 683

<212> DNA

<213> Homo sapiens

<400> 2893

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canaggagag ggaggaagga tctcatgacc aggatgaatt gcattctaga cacccgagga 480
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aattccattg ttgatgttna anatttgggc caaattatgg atcctgtgta naaagaacag 600
agagaatcga accgcccga aaaaaantct ggtttgttcc aggaacctg gggaagaant 660
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gaaaattngt gaaaagaaaa act

683

<210> 2894

<211> 701

<212> DNA

<213> Homo sapiens

<400> 2894

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<210> 2895

<211> 500

<212> DNA

<213> Homo sapiens

<400> 2895

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tggaggactc ggtgtccang ttggagaagg aaattgaggt gctggagcgt ggagactccg 180
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 gtccagccaa ggangagcgc nagacagagg tggatgaa ttcacagcac acgccggtgg 300
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<210> 2896

<211> 151

<212> DNA

<213> Homo sapiens

<400> 2896

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 tccgngtgtt tgcccancag ctcaagaana a 151

<210> 2897

<211> 653

<212> DNA

<213> Homo sapiens

<400> 2897

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 tagatgaact gcagaagagg gtgccccaaat tgatctttaa gaaaggaagc agaaagaata 180
 cagataaaaa ctaccttaac tttgtgtcac cattaccaga catagtagga cagaaatcct 240
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 tggacaatga ngcaccattg tcacttattg actcctcagc tctaaatgct gaaattaaat 540
 cttgtcatga caagtctgga attcctgatg aagttttaca aagtattttg ggatccatac 600
 tccncaaat cagaaagcca naaagaagat cctttccatn tttgcanaac cnc 653

<210> 2898

<211> 896

<212> DNA

<213> Homo sapiens

<400> 2898

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 acgtctctcc cttaccagcc ttcgcttct ggtgcccagc tcttaggacc gtgtgtgact 180
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 caccctnaag gtccgggnaa ttttgaaaaa ccgccctggc ccacattggc aaaaccctg 840
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<210> 2899

<211> 645

<212> DNA

<213> Homo sapiens

<400> 2899

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gcgctgcggc ggancccagt gaaagtgggtg tttccttccg gagaggtggt ggaacagaag 180
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gatatcaagg attggtccga cctcgtaacg cccaaggaa taatggggat ttttgccnag 600
cctgaccatg ttnaaatgac tatcnaaga ctngcttcn cattc 645
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<210> 2900

<211> 485

<212> DNA

<213> Homo sapiens

<400> 2900

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tgccacaaag atcacatgaa aggattaaga gcccctacct tgaaaagaag gttggagtgc 180
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 caacagcagg gttgttcctg ttgtctctgg cattcagctt gaagttacta caggtcagcc 420
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<210> 2901

<211> 692

<212> DNA

<213> Homo sapiens

<400> 2901

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 cgggaaggag gtggtctact tatcccccca ctatggattc tgggtgataa ggctgaagaa 660
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<210> 2902

<211> 541

<212> DNA

<213> Homo sapiens

<400> 2902

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gatcacagtg gtgatgataa agtcttcctg gactgcttct gtnaaatanc tgctggcatc	480
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<210> 2903

<211> 480

<212> DNA

<213> Homo sapiens

<400> 2903

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<210> 2904

<211> 652

<212> DNA

<213> Homo sapiens

<400> 2904

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<210> 2905

<211> 600

<212> DNA

<213> Homo sapiens

<400> 2905

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aacttgaacc atctggaatc tgatgggcag atcacaattt ttacagacaa aacaggagtg 480
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<210> 2906

<211> 788

<212> DNA

<213> Homo sapiens

<400> 2906

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<210> 2907

<211> 622

<212> DNA

<213> Homo sapiens

<400> 2907

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<210> 2908

<211> 475

<212> DNA

<213> Homo sapiens

<400> 2908

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ggatgtttaa tggggatgtg gagattcatt gtactgtttc tatattttg tggatgttga 60
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tgcagttgtg caatctctgt tcaactgcaac ctccgcctcc cgggttcaag tggttctcct 180
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gcatctttag tagagatggg gttttacat gttggccagg ctggtatcga actcctgacc 300
ttgtgaccgg cccaccttgg ctccccaaag tactggaatt acaggcataa gccaccacac 360
ccggccgaaa aatatattta aaaaagtang aaacacacaa gacangcagc ttggacttat 420
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<210> 2909

<211> 746

<212> DNA

<213> Homo sapiens

<400> 2909

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tccttggaaa atccagtttt tatganaaan gtgatttccc aaatctctta cactttacaa 660
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ttgggataaa cactggacna aanggt 746
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<210> 2910

<211> 801

<212> DNA

<213> Homo sapiens

<400> 2910

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ctgggattac aagtgccac caccacgccc agctnatttt ttgtattttt agtagagaca 180
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gggtttcacc atgttggcca ggctggctc aaactcctga ctttgtgatt tgcctgactt 240
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 tagaaccata accacaatac agttaccaca cttttgaaag tcgatgggaa ttccttaata 360
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 ccgctgtgat ctgcttanct catacatttt aaaaaataa ttggttcaaa tcaggatcca 600
 aaaaagttac ataaattgtg tttgattaat gcgtacttgg gtccttttaa atctaaaaat 660
 gtctctcatc ttttttaaaa aacattattt gttgaaaaaa aatgaattta ttccggttta 720
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 ttttctgtt nactaatnng t 801

<210> 2911

<211> 730

<212> DNA

<213> Homo sapiens

<400> 2911

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 tatctaaatg ctgggatcat gcctaacca caactaaata tcaaagcact tttctttggc 420
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 gctctgggca canggcattt attatagttg aacaccngtt nactgaattt aatctcatgt 660

ttgaattttc cttgattgca ntttgccctt ggttttattgt naaacatgga atactttctgg 720
naaaccttcc 730

<210> 2912

<211> 528

<212> DNA

<213> Homo sapiens

<400> 2912

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gaaaaaggac gactgggact tgactctgaa tcgcaggatt tgaagagatt tctcctggct 180
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tctgacgttt tcccagggat gtaatttgcc tgactggaaa cagatcagga ccaacagggg 420
agagttttcg atttagtgtg aggaaaagan cactanattg tagcaaaaga ccttattgct 480
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<210> 2913

<211> 565

<212> DNA

<213> Homo sapiens

<400> 2913

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gaaccacgaa agtagaaatc acagccagtc agcccaccag caccatcatc ctgcatagtc 120
accacctgca gatattctagg gccaccctca ggaagggagc tggggagagg ctatcggaag 180
aaccctgca ggtcctggaa caccctcctc aggagcaaat tgcactgctg gctcccgagc 240

ccctccttgt cgggctcccc tacacagttg tcattcacta tgctggcaat ctttcggaga 300
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 catcaacaca atttgaaccc actgcagcta gaatggcctt tccctgcttt gatgaacctg 420
 ccttcaaagc aagtttctca atcaaaatta gaagagagcc aaggcaccta gccatctcca 480
 atatgccatt ggtgaaatct gtgactgttg ctgaaggact catanaanac cattttgatg 540
 tcnctgtgaa gatnancacc tatct 565

<210> 2914

<211> 773

<212> DNA

<213> Homo sapiens

<400> 2914

aagatgcaca agtaccttta accaaccata agaaatcaga aaagcaagat aaagttcagc 60
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 tggttaatga caccaagctg ggactggtac agaaagtcag agaacactta cagaacttgg 180
 aaaactcagc tttcacagct gacaggcata agaaaagaaa acttttggaa aactcaacac 240
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 ggaatttggg gaacacatgt ttcataatg ccatacttca gtcactcagt aacattgagc 360
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 catgaattcn tgcgctacct tttgggacca cctncacttg gaacttcngg ggcgggtttc 660
 acggtgtttc ccgctcanca attctgcagg aaaattctac tctgtctgcc aattaccaag 720
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<210> 2915

<211> 715

<212> DNA

<213> Homo sapiens

<400> 2915

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aagacgccgg gacaccctgg aagcctagaa atggacaacc tgaggtatgg agtgtatcct 180
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gaaaaggggc cgttgacatt tagggatgtg gtcatagaat tctctcagga ggagtggcaa 300
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ctgggtgttct tgggtattga tgtctctaag ccagatctga tcacctgtct ggagcaagga 420
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aagcanttct cctacctcag cctcccagat atctgggatt acgggcatat gccaccacac 600
ccagcttaat ttgtattttt antagaaaca nggtttctcc atgttgggtc ggctagtctc 660
gatctcctga actcaggtna ttcaccacct cngcttccca aagtgccngg attac 715

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<210> 2916

<211> 654

<212> DNA

<213> Homo sapiens

<400> 2916

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accagaagca ttnaatgtta tcgtaaggct aattgaacaa gcccgaattc aaatgggana 60
agaggcagtg aggtgggcaa aactgggtcat acctttagt gttcattcag cacaaaaggt 120
acatttgccg ggagcaactg ctctggagat gggaatgcc a ttattgcttc agaaacagca 180
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acttgattt cgtagtggag cacccatgat taaaaagata gcttttattg cttggaagan 420
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 gttaatgcag cctttgagtt ccatccatgt tgagaacaga aactctagca ttaacaaaac 540
 tagaantctg gtggtattta ctgatganac ttggacctca tcttcctgct aattttgaac 600
 aggtttgtng tgcctctgat tcnaaagtac aatnagcatt gattctnatg cctc 654

<210> 2917

<211> 675

<212> DNA

<213> Homo sapiens

<400> 2917

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 cccgggtccc cggcagcggg gtangatggc gctaaagcgg atccanaagg aattaaccga 120
 cttgcagagg gatcctcctg cccagtgttc tgcangacct gtcggtgatg acttgttcca 180
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 cccaacccc gatgaccccc tgggtgccaga aatagcacac acctacnagg ccgacagaga 480
 gaagtacaac agactagcaa ganaatggac acaaaaatat gctatgtaag tgccttggaa 540
 gttttacatg aaacactgtc caagaaaanc tggcagaaaa gtcttcctt aaaactttgg 600
 gctgttggt gaaccattca aanaacatca tctgttcttc aaacaaatnt tngtcaccac 660
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<210> 2918

<211> 708

<212> DNA

<213> Homo sapiens

<400> 2918

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ggagcccctc agcggcggcg gggctctgtga gttggtcgcg gggctcttggc ggggaatgga 60
ggtagaataa acgtgggacc cggagtgcac caaggtgaga aaaaaaaaaat tactaaaaat 120
gacaagtaga anacttgagg agtccatggg ggctgttcan atgggattgg tcaatatgtt 180
caaaggattt caaagcaagg ttttgccacc cctgagtcca aagggtggtta cagaanaaga 240
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ggaaacaaca catcagaagt tttcaggaat tgacctggat caggcattat tccagccctt 420
tccatcagaa attatatctc agaactacac tccctgtgaa gtctatgaag ttccactgat 480
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ctttaaagta atcagcccca aagatatgg ccacaaagt gctcctggna gtgccttcca 600
tattccgaat cctctttact ccanaagaaa aacaaggatt acgcccatac cttnaacctt 660
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<210> 2919

<211> 707

<212> DNA

<213> Homo sapiens

<400> 2919

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acaagaagga cgaggagtct ggtagtggct ccaatccttt ccagcatctg gagaagagt 60
ctgtttttaca ggaggctcgt atattcaatg aaactccaat caatccaaga agatgtttgc 120
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caagcagtct gactaaagac atgactggaa aagaagatgt ataccgaggc ccggccatca 360
gagctctctg caggatcacc gatggaacna tgttgcaagc cattgaaaga tacatgaagc 420
aggccattgt ggataaagtt tccagtgtat ccagttcagc actggtatct tccctgcaca 480

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tgatgaagat nagctatgat gtggttaagc gctggatcaa tgaagcccaa gaagctgcat 540
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 atgatcgact tgctgtttcc acatgttgaa taagtttact aaggtctggt cccaagtcac 660
 agtttgctta ctgcatgctg atccgaattg ccngtcnctt actnaaa 707

<210> 2920

<211> 634

<212> DNA

<213> Homo sapiens

<400> 2920

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 cgcggttca cgcacacact gcggcagctg gacgccgaga tcaaggcgga caaggagaag 120
 gggttccggg tggataanat tgtggaccag ctgcancagt taatgcaggt gtatgacttg 180
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 ctgcacaact tcctgagcgt cctgtttcag tgcatgccan tccctgtgat cctgaacttt 540
 gatgcggant gtcagangac taaccaggtt caagaanaaa atgaattctg cgtcagaanc 600
 tttttgcatt gcaagctgaa atcnccegac tgaa 634

<210> 2921

<211> 551

<212> DNA

<213> Homo sapiens

<400> 2921

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 tggttgggag agagtagctg ttaactattc tgggtaatgg gggtgagtat gttgaggaag 180
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<210> 2922

<211> 494

<212> DNA

<213> Homo sapiens

<400> 2922

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 gcctacgctt cgtccccttg tttcttgaac aaccgttagg gaccaggggt ncccctcagg 420
 gangccacag tccggggctg gggcgctcat tgatgcantg atcacacaac angccgcccc 480
 cctgaagaaa ctnc 494

<210> 2923

<211> 484

<212> DNA

<213> Homo sapiens

<400> 2923

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ggtctgttaa aaaaacgctt aacagccant ttgtggaaaa ctgcaanggg gttattcacg 420
gctgacactt cangaacaca agattgtgtg gaatcnaacc acccaccttt gggaatgatt 480
gctc 484

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<210> 2924

<211> 741

<212> DNA

<213> Homo sapiens

<400> 2924

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aaaaatctat gattcagctt ttcatcctga cactggtgag aagatgattt tgataggaag 60
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ccangattct catggcagcc cctggcatgg ccatccctcc attcattatg aacacttttg 540

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aaaanaaagc ctttttgaan angttcccat gggatgaatg cccattcaa gttgggtag 600
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 cattgtctgt tacaancitg gaagccgaat tgcancitg atccaagaaa accctcctga 720
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<210> 2925

<211> 774

<212> DNA

<213> Homo sapiens

<400> 2925

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 aaggttctta ntctcgacta gggcagtagc cccaggactc ctagtcgccg gcttcaggtc 180
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 aangaaccaa catccttttg gagccatgaa tattgtccga actccatctg ttgctcagat 540
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 tgtatcctca gttgactcat tcaactcagtt cacacaaaaa natgttggac aatttctaca 660
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 tgttccattc cnggcaaatt ttggttctna aaattgggtt ttnaaaaaaa aaaa 774

<210> 2926

<211> 655

<212> DNA

<213> Homo sapiens

<400> 2926

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gcaaagactg ttgaaacca tgtgccagga aaacttacct attgaagctg tttatcacag 420
atatatggta catttgctgg agttggctgt gactttcatt gagagattag aaaccacct 480
tgaaacaatt agaaatattc ctcatttagc tgcaaatcta aagaaaatga accaggcttt 540
ancaaagatg gatataattg tgactgagac agaagaactg gcagaaaaat atnctccnag 600
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<210> 2927

<211> 665

<212> DNA

<213> Homo sapiens

<400> 2927

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atcatgggcc agacttttga agatagaatg gacctcttct cagctctcat caggggcccc 540
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actcgaaccc cctacgaaga tggcctctac ttgtttgaca tccagctccc caacatctac 600
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tgttt 665

<210> 2928

<211> 513

<212> DNA

<213> Homo sapiens

<400> 2928

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tcttgtgaaa acagcgatgc cagcagtcac gcaaatgctg caaagcacac tcaggacagc 180
gcaagggtca acccccagga tggcaccaac acactaactc ggatagcgga aaatgggggtt 240
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nccacccttg gggganggga nttctgacac ana 513

<210> 2929

<211> 668

<212> DNA

<213> Homo sapiens

<400> 2929

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ctactaggaa ggggtctaggg ggangaggga gcctgaaatt ccaaaaatat aaatgtggaa 180

agactggagg gggtcganga gtctctttgc ctgccttagc tctggcccca gctctccttt 240
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ttaagcaagt catatcttgt ctccgggcct cacctgtaaa aaganggaag ggactgaatt 600
tactnngggt tttcaaatga ttttaactct ggggtccttc cttcaaataa aaccgtntgc 660
nctgaccc 668

<210> 2930

<211> 837

<212> DNA

<213> Homo sapiens

<400> 2930

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ttggaacaca cctgtgtcca ttctttcatg tattgtctat ggctgtgtc atgttacaac 180
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aataatttat tggctcagtg attcccaaatt tatgttttat agaataataa tattctctaa 360
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ttgtatcccg tcttaataat ttcacacatt tgcgatactc aatgtctatc ctaaattaac 720
catgttttgt acccaaactc nttggcccat gggatctgtt gctgaaacaa aggaaatctt 780

aaacaaaaaa atngaaactt ccggttanca aaattggtgt ctgaatccaa ntgaten 837

<210> 2931

<211> 520

<212> DNA

<213> Homo sapiens

<400> 2931

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 aatgaactt ggaccaactt aagcaaggaa aaagcgttca tgggaaggat gctgggatag 180
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 tggagctcag ggcttcatag agtgggaggg gggcantctt ccaaaagatg cggactcttg 420
 ccacatggaa tgggtgganta cggaagggtg gaaagggttt ggtangtnaa ccctgaanat 480
 gcttctaaca cacgtinctgt tctcccatct cacgtatgac 520

<210> 2932

<211> 876

<212> DNA

<213> Homo sapiens

<400> 2932

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 tacagatatg tttggccctg aaacatgtac atgatagaaa aattcttcat cgagacatta 120
 aatctcagaa catatittta actaaagatg gaacagtaca acttggagat tttggaattg 180
 ctagagttct taatagtact gtagagctgg ctcgaacttg catagggacc ccatactact 240
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ggtgtgtcct ttatgagctg tgtacactta aacatgcttt tgaagctggc agtatgaaaa 360
 acctgggtact gaagataata tctggatctt ttccacctgt gtctttgcat tattcctatg 420
 atctccgcag ttigtgtgtc cagttattta aaagaaatcc tagggataga ccatcagtca 480
 actccatatt ggagaaaggt ttatagcca aacgcattga aaagtttctc tctcctcagc 540
 ttattgcaga agaattttgt ctaaaaacat ttctgaagtt tggatcacag cctataccag 600
 ctaaaaaacc agcttcanga caaaactcna ttctgttat gcctgctcaa aaaattacaa 660
 gcctgccgct aaatatggaa taccttttagc atattaagaa atatgganat taaaaaatta 720
 ccnaaaaag aaaccactgc caaaacntaa accnggccct ccaactccca aaaaaaaaaa 780
 ttgaattctg gganaaaaaa agggaggaaa atttctgaag naacccccca gaaaanaaaa 840
 aaggggggaa ntttttgaaa aagggaan aaaccc 876

<210> 2933

<211> 585

<212> DNA

<213> Homo sapiens

<400> 2933

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 ctctcttttg aactgacac ttggagcttg cagataagga agacaggggc tcagacagct 180
 actgactttc ctcatgctat caggatatgg tacaaaacta aacctgaagg gcgatcggtt 240
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 aacagggccccc tttttccatg ccaggagcca cccgttgcca tgtcaacatg gcaggctaca 360
 gttcgagcag ctgcatcttt tgttgtttta atgagtgggg aaaattctgc caaaccaacg 420
 cagctttggg aagaatgctc aagctggtat tactatgtaa ctatgccaat gccagcctcc 480
 accttcacaa ttgcantggg atgctggacn gaaatnaana tggagacatg gtcctcaaat 540
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<210> 2934

<211> 538

<212> DNA

<213> Homo sapiens

<400> 2934

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cgccaagtgc ccctcggtgg cggagtgcga aagaccctan cggttcatgc gttcggcgag 120
cggggccgct gcttggtgcg ctcctggctc tcccggggcg ggcgcagatg ggcgccgctc 180
ccgggatgta tttggtgttg gtgcaaggcg ggagcgagcg gcggtcgggg ttcccgtctt 240
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gggaccgggc gggctcgggg cagggaactca cctgtcgac ccacactcat tcgggttgga 360
cttgccggcg tcaccgccgc ggacttcgct ttgggcatg accanataa attggtgatt 420
acaactttcc tctataaatt aactcttgac actccttggg atttgaanaa aaaaatgcct 480
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<210> 2935

<211> 610

<212> DNA

<213> Homo sapiens

<400> 2935

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taattctgac tcattaactt ctacctactc aaaaaagtct gccatgatga tggaccgaag 120
tgaggctttt taaccacaaa gtaacctttt ttttttttg agacagtctt gctctgtctg 180
tcaccagggc tggagtacag tggcatgac ttggctcact gcagcctcga ctccctgggc 240
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gcctggctat tttttgttg agctgggctc tcgctttgtt gccaggctg gtcttgaact 360
cctcggctca agcaatcctt cccactcagc ctcctgtagt gtcganaata taggcgtggg 420
ctactacacc tgcttcagcc gcttctataa aaccgctgac ctgtgtgttg angacagcca 480
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ngtgtgtgct cactgcgctg cgaaaatgtt ttgtcacgtg actttcccg gatttccatt 540
tcttttttct tgcttccctc cnaaactaat anaaanactg ggtgcggggg ctcacgcctc 600
taatcncanc 610

<210> 2936

<211> 783

<212> DNA

<213> Homo sapiens

<400> 2936

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attggtggga atcacacccc aagtaatgaa agacttgatt gttcatttcc aagataaaaa 120
attaatggaa aatgtggaag cgctcattgt acatatggat atcaccagcc tagatatca 180
gcaggtagtt ctcattgtgt gggaaaatcg ttatatgat gctatgatct atgtctacaa 240
cagaggcatg aatgaattta ttagtccaat ggagaaactt ttcagagtca ttgtcctcc 300
tctgaatgca ggaaaaacac taacagatga acaagttgtt atgggcaata agctccttgt 360
atatattagc tgttgtctag caggtcgtgc ctatccccctt ggtgacatcc ctgaagatct 420
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ttctcctgaa ggaaaaaatc tacccttaca ttccgacttt gctacatttt gacacaagan 540
aatttctcaa tgtnttggca ctgacttttg aagattttta aaatgacaag caagctgtgg 600
gaatatccac agccgaattg tggatatattt gttgaaagtt atgggtggan aattcagact 660
ttacccctc acaagttinga tgtctcttta ccttccttgn tccgcagctt gcaaaacctg 720
acaacacctt gtttgttaaa canaaacctt ttgatccng gtccntgaaa tcccttgntg 780
tcc 783

<210> 2937

<211> 720

<212> DNA

<213> Homo sapiens

<400> 2937

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 aaggctacga gtcctcgggc aatgatgact acaggggtag ttacaacacc gtgctctcac 180
 agcctttatt tgaaaagcag gacagagaag gtccagcctc cacgggaagc aaactcacca 240
 ttcaggaaca tctgtacccc gcgccttcat cacctgagaa agaacagctg ctggaccgca 300
 gaccactga atgtatgatg tcgcatcag tagatcacct cgagagacct acgtccttcc 360
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 cctatgtcag ccagccccc ctcgtcccgg ctgatcagca gcttgagata aaaagactac 540
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 cccagccctt gtcttcccag gccatctctc ancancacct gcaggatgcg ggcacccggg 660
 aatggaaccc tcanaacgca tccatgtcgg antctctctc catccanct tccctgaaac 720

<210> 2938

<211> 544

<212> DNA

<213> Homo sapiens

<400> 2938

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 ggggattcct aaggatgtca ccacagtgtt ggccagatgc acaggtcaca ggggactgaa 180
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 gatgagatga aaacaacaag caggccaggc acggtggctc atgcctgtaa tcccancact 360
 ttgggangcc gaggcgggcg gatcacctga ggtcggggagc tcgagaccac cctgatcaaa 420
 acaganaaac cccatctcta ctgaaaatac aaaattagcc aggcgtggtg gcaaatgcct 480

gtnataccan ctactcagga nctgaggcag gaaaattgct tgaacccggg angtggangc 540
tgca 544

<210> 2939

<211> 821

<212> DNA

<213> Homo sapiens

<400> 2939

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tggaacagtt ttcatttctc ttggatacac actagcagtg gaattgctgg gtcatacagt 120
aactctatgt tactTTTTga agaaatgcca gacagttttc caaagtggct gcaccatttt 180
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cgggtcttan catgttggcc aagctggtct tgaactcctg aactcaggtg atccaccac 660
cttggccttt ccaaantgtt gggattacag gcatnaacca ctgccccggg tggggttatg 720
tttttatatt gaattgtagg aatactttaa tcnttttaac taaaaattct ttatcctttn 780
agcttaccan ctncattnat ttggcaaaaa tttcctcccc a 821

<210> 2940

<211> 768

<212> DNA

<213> Homo sapiens

<400> 2940

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tttgcatttt gcacttcctc ccangatatt tttttgggcc aaatatnaaa tattggtgca 720
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<210> 2941

<211> 678

<212> DNA

<213> Homo sapiens

<400> 2941

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acagcatgac agaagtactc cttcaaagca gctgtgtcta gaaagaagaa ctggaaaagt 540
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<210> 2942

<211> 609

<212> DNA

<213> Homo sapiens

<400> 2942

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 acaagcactt ccgtcatgca gaaaaccca tcctctctc aaaacctcca ncanaacggt 540
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 aacccatcn 609

<210> 2943

<211> 648

<212> DNA

<213> Homo sapiens

<400> 2943

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 gccaaaccaag ctttcgtgta catagtaccg ggaagccagg aggaggaccc agtaggtatg 240
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 actggananc taacatctaa nattttaagc agtattaaan tcttgga 648

<210> 2944

<211> 528

<212> DNA

<213> Homo sapiens

<400> 2944

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 ccacactcct gtggaaaagt tgaaagccaa gcttgataat gacactgtca aatcttctgc 360
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 ggaatcagtt agaattgaaag tnccaaagga aaaggggctt tcaagccatg ttgaagtgg 480
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<210> 2945

<211> 679

<212> DNA

<213> Homo sapiens

<400> 2945

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cgtgttttca cagcccacac tcgtgccgga agccccttac cccgccccgg gctgtgggtc  180
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ccactaacia ccagttccaa attctgtcat caaatcctgt gctgctgttc ctggtggtaa  300
tanatgcata ttatttcttt tatttaaaag aaatgaatgt gactantatt gcattaagan  360
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gttttaactg gattcnagaa gaaaataata atgttaactt gantccggcc caaatgaata  480
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ccgatggcnt tttaaaaatt ccaaaaggaa aaattaaatg gattttatgc tctgcnaatt  600
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<210> 2946

<211> 528

<212> DNA

<213> Homo sapiens

<400> 2946

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gcggtacctc ggtaccccaa gggctgttga aggcagcgag gaagancggc cagttaaacc  180
tgtcgggtag aaacctcagt gaagtgccgc antgtgtctg gagaataaat gtggatatcc  240
ctgaggaagc taatcaaaat ctttcgtttg gtgctactga aagatgggtg gagcagacan  300

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atttgaccaa actaatgntn tcaaacaata aacttcagtc acttacagat gacctgcgac 360
tcttgccctgc actgactgtt cttgatatac atgataatca gttgacatcc cttccttctg 420
ctataagaga gctanaaaat cttcagaaac ttaatgtcng ccataataaa ctgaaaatac 480
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<210> 2947

<211> 745

<212> DNA

<213> Homo sapiens

<400> 2947

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ctctagccgg aacctggggg cccgggagccg gggtangcac ananttgtcc tcggagggtcc 180
aggacagcgg ccagcccggc ggCgggagtc agggccaagc cacctgcagg gaagaacccg 240
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caagctttca catctggaaa ttatgatgcc tgtctacaac accttgcctg tctacaagat 420
ataaacaag atgattatna aataattttg aatacagcag tagctgagtt ttttaaaagt 480
aaccaaacna caacagatta ttgagacaa acacttaacc agctnaagaa tcagggtccac 540
tcngctgttg aaagaaatgg atggattaga tgatgttgaa aacagcatgt tgttctataa 600
tcaagnagt cattctttat catctgcggc agtatacana agccatatcn gttggtgaaa 660
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ctttgttaaa cctgttntnt tttta 745

<210> 2948

<211> 565

<212> DNA

<213> Homo sapiens

<400> 2948

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a t t c c c g g g a	g g g g g g a g c g	g c g t t g g a g g	c c a c c g t t t c	c a g c a t c a a c	a a c a g c a a c t	120
t g t g a t t g g c	g g t g a c c g g a	t a t t c a g t t g	c a c a t c c c c a	c a t c a a t g c a	c t g c c a a t g g	180
g t t a t a t c c t	g t g t t g t g a c	c t c a t g g t t t	a a g t g g g a a t	a a g a t g a g t	a t a a g c a g t g	240
a t g a a g t c a a	c t t c t t g g t a	t a t a g a t a c t	t g c a a g a g t c	a g g a t t t t c t	c a t t c a g c a t	300
t t a c c t t t g g	t a t a g a a a g c	c a t a t c a g t c	a g t c c a a t a t	a a a t g g t g c c	c t c g t c c c a c	360
c c g c t g c a t t	g a t t t c t a t c	a t c c a g a a a g	g t c t a c a g c a	t g t a g a a g c a	g a a g t t a g t a	420
t t a a t g a g g a	t g g t a c c t t g	t t t g a t g g t c	g a c c a a t a g a	a t c t c t g t c c	c t g a t a a a t g	480
c c g t a a t g c c	t g a t t t a g t t	c a a a c a a g a c	a a c a a g c t t a	t a a a g a t a a c	t t g c a c a g c a	540
a c a g g c a n c a	n c t g c t g c a n	c t g c c				565

<210> 2949

<211> 559

<212> DNA

<213> Homo sapiens

<400> 2949

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c a a t g t g a a a	a g c t c c c a g t	t t a a g t t a g a	a a c t g c t g a a	a a g g a a a a c c	a g a t a t t g g g	120
g a t a a c a t t a	c g t c a g c g t g	a t g c t g a g g t	g a c t c g a c t a	a g a g a a t t a a	c c a g a a c t t t	180
a c a g a c t a g c	a t g g c a a a g c	t t c t c t c c g a	t c t t a g t g t g	g a c a g t g c t c	g c t g c a a g c c	240
t g g g a a t a a c	c t t a c c a a a t	c a c t c t t g a a	c a t t c a t g a t	a a a c a a c t t c	a a c a t g a c c c	300
a g c t c c t g c t	c a c a c t t c c a	t a a t g a g c t a	t c t n a a t a a g	t t a g a a a c a a	a t t a c a g t t t	360
t a c a c a t t c a	g a g c c a c t t t	c t a c a a t t a a	a a a t g a g g a a	a c c a t a g a g c	c n g a c a a a a c	420
c t a t g a a a a t	g t t c t g t c c t	c c a g a n g c c c	t c a a a a t a t t	a a c a c t a g g g	g c a t g g a g g a	480
a a g c a t c t g c	c c c t g g a a t t	a t t t c t g c c c	t t t c n a a n c n	g g a t t c t g a t	g a a g g g a g t g	540
a a c t a t g g c t	t t a n t a n a a					559

<210> 2950

<211> 557

<212> DNA

<213> Homo sapiens

<400> 2950

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tccctaaaga agtggctgac atctttaacg cccccagtga tgataaagag tttgttggtc  180
tccgagatga tgttcccatg gaaaccctct cgtcagagga gagctgcgat agttttgact  240
cactagagtc agggaaacag caggatgtgc gctttcattc caaatacttc acagaagagc  300
taagaagaat ttttatagag gacactgact cagagactga ggattttgca ggatttacgc  360
agagtgatct gaatggaaag actaaccag aagtaatggt cgtggagtca gatttgagtg  420
atgatggcaa agcatctttg gtgagcgagg aagaggaaga tgaagaagaa gatgggctgc  480
ccctagaaga agcgggtctag aagaagtagt atggtcttcg agtaccttcc ttcccncca  540
naactggcca cnaacca                                     557
    
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<210> 2951

<211> 557

<212> DNA

<213> Homo sapiens

<400> 2951

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actgagggtg gtggagcagg tagatggaaa gaatctcttc ccaaagacaa gccgcagaac   60
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ggctttcagg ttttgttgct tagcacatcc aggggtcatgc acttcaggac aagccacctg  180
atgcccctcg gccccccagt cctgcagcct cgctggagct ctccctgcag caggaagggc  240
tgaggccaac cacaagggg cttggggcca catcaaggga tggcagaacg agagggaagt  300
    
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gcagggagcc tggcccaaaa aaccaaccct gccgccgcct cctggaaggg gcacacctcc 360
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 aatgtgtggc ctctgccaga cccaggtggc tccaggtggt ttgactccca tttcctctcc 480
 ccttcccagg tctttcccaa gccagaccc cctgttttta attttcccct gttggggana 540
 aaagaaaatn tgccnca 557

<210> 2952

<211> 710

<212> DNA

<213> Homo sapiens

<400> 2952

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 tggattatct taacaacact gatctcttca aagcagagag catgtttaca aatgcagtac 180
 agattcttga acagttcaag gtgaaaatga ctcagaagaa agaagttact ttaccatttt 240
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 gatcttatat aaaacacaga aagtttgatg aagtggcttc ctttgcaag gagctaattc 360
 ntcttgcatg gaaaggattg tcctattatc acacatatga cagattcttt ttgggcgtca 420
 atgttggtat tggttttgtg ggatggatat cttatgcctc ttattgatc atcaagtctc 480
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 gtagttttgt acctattggc attttantan cattttttct gctgattcca gcctgtccct 600
 ggacatatta tgtatatggt ttgttgccnc tgcccatatg gtttgcngtt ctaaaaaaat 660
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<210> 2953

<211> 519

<212> DNA

<213> Homo sapiens

<400> 2953

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tccctggcac ctctcctttg gagccacctt gtccctggct agacagtcac attttccagt 180
gccgttttgg aaagatgttg cctttggana aggcgtttgc ctcccccaag anctccccag 240
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tctaccaaga agctgccggg cccacacaaa ccctggccccg gctgcntgaa ctgtgccgcc 420
agtggctgat gcctgaagcg cgctccaang aacanatnct ggaactgctg gtgctggaac 480
anttcctggg catcctgcct gataangtcc ggcctgggt 519
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<210> 2954

<211> 684

<212> DNA

<213> Homo sapiens

<400> 2954

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tccgcgtcga ggagccgggg cagggcacga tggcggactg ggctcgggct cagagcccgg 120
gcgctgtgga agagattcta gaccgggaga acaagcgaat ggctgacagc ctggcctcca 180
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cgtgagccan tgggagctgg tgtctgtggg tgccaanggc agccagggtc ttccctgcct 480
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tcaggaatct tcttctgtg tggcangaag ctgcngctgc ctgtgacctg atnanctcat 600
gttggctggt cccatgtgtg aaagggacct ctcggggaaa ccaaggccca ncccctcccc 660
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cctcccccaa gtncctanaaa acca

684

<210> 2955

<211> 780

<212> DNA

<213> Homo sapiens

<400> 2955

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tcaagctcag gctcttcgaa gtctcttggg ggtttagatt ttatctcgaa actctcgga	180
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aattgaatgt cgagatgaat ataaatataa tgtggangct gtggagctgc taattcgcaa	420
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aaactacatg gctgtggcat ttgctatgca nntagtaaaa atcctgctgg tggatgaaaa	540
gantgttgct catgttactg angcagatct gttccacacc attgaaaccc tcatgaagat	600
taatgctcat tccaaaagca atgctccaaa angattgccc cactgatgga antantgcna	660
tccaactatg aagcaatgat tgatcgtgct catggaagcc caaactttat gaatgcattc	720
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<210> 2956

<211> 659

<212> DNA

<213> Homo sapiens

<400> 2956

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<210> 2957

<211> 659

<212> DNA

<213> Homo sapiens

<400> 2957

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 ctgaatctta aagttctaaa agcaacaagt acnatnaggt tagaagacag agactcagaa 600
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<210> 2958

<211> 593

<212> DNA

<213> Homo sapiens

<400> 2958

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tggagtggtc gcccaatctg gatggaaaag atggtaatgt gcagagtgaag agttccacac   180
acatttgctg ttactctta caccggtccc acgatatgtc agtactgcaa gcggttactg   240
aaaggcctct ttgcgaagg aatgcagtgt aaagattgca aattcaactg ccataaacgc   300
tgtgcatcaa aagtaccaag agactgcctt ggagagggtta ctttcaatgg agaaccttcc   360
agtctgggaa cagatacaga tataccaatg gatattgaca ataatgacat aaatngtgat   420
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ttggatccat ctgatctcga tgtggaanaa gatgaagaag ccgttnaaac aatcagtgca   540
tcaacaagca ataatatctc gctnatgagg gttgttcaat ccatcnngca cac           593
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<210> 2959

<211> 510

<212> DNA

<213> Homo sapiens

<400> 2959

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gtcaatggat gccagaattc aggtagccca ggagaagcaa gttgctgagc aggggtgggga   180
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agctccaggg ccttccaaga gggactcgga ctgcagcagc ctctgcacct ctgagagcat   360
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ggactatggg accaatctct ccactgacct gtcgctgaac aaagagatgg gctctctgtc 420
catcaaggac ccgaaactgt tcnaaanaac cctcaagcgg acacgcaaatt ttgtggtgga 480
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<210> 2960

<211> 626

<212> DNA

<213> Homo sapiens

<400> 2960

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ttgtgtttgg agacatcagg gtgaacgaaa agtcagagta caggatgaag acatggagac 540
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cncgagcagt gatnangatn aagaaa 626

<210> 2961

<211> 516

<212> DNA

<213> Homo sapiens

<400> 2961

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<210> 2962

<211> 581

<212> DNA

<213> Homo sapiens

<400> 2962

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 acattggggg aactctagta aagctctcgt actttgaacc tattgatatc acagcagagg 180
 aagagcaaga agaagttgag agtttaaaaa gtattcgga atatttgact tctaactgtg 240
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<210> 2963

<211> 740

<212> DNA

<213> Homo sapiens

<400> 2963

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tnattatttg aaaaaatgaa 740

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<210> 2964

<211> 464

<212> DNA

<213> Homo sapiens

<400> 2964

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gccggtcccc actgatggtg gcggtcggtc ctgatcgtcc tgatggcagc gaccaagctg 360

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gactcgggct gtgcacgggc gaagggacaa ggcgggggtga ccccggaata cgcctggaaa 420
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<210> 2965

<211> 735

<212> DNA

<213> Homo sapiens

<400> 2965

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tgcattgata acaaaacaat ataccctggg ntttcttacn cncacttat atgcncaagg 660
gagtaaatgt gttactaaaa ttcgggtagt gcattttgtc cctgaatctg aacctggaaa 720
aatgttacnt taant 735

<210> 2966

<211> 682

<212> DNA

<213> Homo sapiens

<400> 2966

gggaattacc gactctaagt gaaggtcact gacacagaga agcagtatgt gtctggggct 60
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 atgaggaaga ccaggtttcc agtgtaaact actcttggtc ccaccacctc tggagcactc 180
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 cctgacctat tgctctggag gaaagagttg tataagaacg tggctcatgt gaacttttgc 360
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 catcacagtg atttttattc cctgggaaca cagcgtgtac taaaaatata tgagaaaata 480
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 taccagttat aaagatggca gctctatcac ttgattaagt gggangtggt caaatattct 600
 gggcgcctca ttttcttcat ctgtganatg ggaactgtta tgcctggctt actaanaatc 660
 ttgtngagan actgaaaaat tt 682

<210> 2967

<211> 640

<212> DNA

<213> Homo sapiens

<400> 2967

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 cactgcaacc ttaacctcct gggttcgggc gattctcctg tctcagcctc ccgagtagct 180
 ggtacgacag gtgcatgcca ccatgcctgg ctaatttttg tgtttttact agagacggca 240
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 ttaagaaaca cccgattcag taacaatagc tcttaattta gtttatatca ttaaattgtt 420
 tgatcttcat ccttgtttta ggaaacacaa aaaagcntgc acaaanaggc ttataatttt 480
 tatataattt aaaatatattc ttcatttaaa cagaaatgtt ctactctcn ncttttcatg 540
 tgtncatact taccatttct gtgggtgtgt gcataaaatg ttngcatcat ttgatcaatt 600

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640

<210> 2968

<211> 604

<212> DNA

<213> Homo sapiens

<400> 2968

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 gcacgtngca gatttttaca aattttgcaa agacaagatt gtgttaccca aaaatatcag 180
 gaaaatgcac aattatcagt taagcaggtn cgaaacttga gatctgaatg tataggattg 240
 gaaaaccaa taaagaaaat ggaaccctat gatgaccaca gtaatatgga agaaaaaatt 300
 caaaaggttc ggtctttgtg ggcttcagtg aatgaaacgc tcatgttttt ggaaaaagag 360
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 gttgctatta atattccaag gctcttactt gacaaaattg agaaacaaat gtttcanttg 480
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 aatgaaatct tgaaagtgat gaaatatgaa cgttgtcngc tgatctagcc agattgacng 600
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<210> 2969

<211> 618

<212> DNA

<213> Homo sapiens

<400> 2969

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 ctcttcctt ggagaagaga tgagagaaga tggcttagc ccaaatgaaa gcaaactttg 180

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 atcaaacaaa caggatgttc ttaacaagga ttctgggaag atgaaaggcc atgagagaag 480
 actaggccaa gtctttcctg ttctacnaac taagaccagg actaatgttc cgacgttttc 540
 acagtccaat ctagaacagc anaagcagct ttatctcagg gagtctcatt gctcatatng 600
 aaanacccng aagacnct 618

<210> 2970

<211> 489

<212> DNA

<213> Homo sapiens

<400> 2970

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 gatggctatg agtcgtcgtt gaacttccac aacaacaacc aagaggactg gggctgctct 180
 agctgggttc caggcatgga gacgancctc cctcccgggc actggactgc tgcggtaaag 240
 aaagaagaga agtgtgtgcc gccttacgtc caaatccgag atctccacgg gacccctcagg 300
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 ctgaggaggc acccgagttt cagtgcaaac tgtggcctgc ccagctcctg gacaagcact 420
 tggcaggtgg canacgacct ctcccanaac acttttagacc tggagtatct gcgtttttgca 480
 catnaacta 489

<210> 2971

<211> 571

<212> DNA

<213> Homo sapiens

<400> 2971

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 aaagcatcca cctaattata aaaagccagt tctcttttct tttcagccaa atcacttttt 180
 taataacaat aaggttcaac ttatggtaac tgatagtgag ttgtccaatc agttttcaat 240
 tgatactgtt ggtagtcatg aagctgttaa atgtaaaggc ctgaaaatgg actatcaagt 300
 tgggtgctact atagacctga gcagttttta cattactaga attgtgacat ttaccctttt 360
 ttatatnatt aaaaacaaaa gcaaatacca tatatcagtg gctgaagaan gaaatgataa 420
 atggctctct cttgatttgg agcagtgtat ccccttttgg cctgagtatg cttctagtaa 480
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 ggaaaattgt attctattgc gtctaaatna c 571

<210> 2972

<211> 493

<212> DNA

<213> Homo sapiens

<400> 2972

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 ctgtgagctg ttgaaagtgg agatgcctac aagactgcca gaccggtcag tggcctggcc 120
 ttgccctgac agacatctcc gggagaaacc ttccttagaa aaggtcactt tccagattgg 180
 aagctttgca tctccagagt ctgactttga aagccgcatg aaaaaaatgg aggaacgggt 240
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 ggtttctagg agccctttta aacctggctt tcaggagaat gtttgctgtc ctcagaatcg 360
 gctttcagag ggggatgaag gcgagtctga caagggtttt gcagaagaca gaagcagcag 420
 aaacgacatg gcancanata ttgctgggcn gctcagccac gctgctgact tgggcacagc 480
 ctcccacggt gca 493

<210> 2973

<211> 754

<212> DNA

<213> Homo sapiens

<400> 2973

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cacagctaac atggcggcgc cctgtgtgtc ctacggcgga gcagtttcgt accggcttct 60
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gttgcaaaca aatgtcagat cccagatatt aaggctaaga catactgcat ttgtaatacc 180
aaagaaaaac gttcctacct caaaacgtga aacttacaca gaggatttta ttaaaaagca 240
gattgaagag ttcaacatag gaaagagaca tttagccaac atgatgggag aagatccaga 300
aactttcact caagaagata ttgacagagc tattgcttac cttttcccaa gtggtttgtt 360
tganaaacga gccaggccag taatgaagca tcctgaacag atttttccaa gacaaagagc 420
aatccagtgg gganaagatg gccgtccatt tcactatctc ttctatactg gcaaacagtc 480
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ngggggcggg aagtcnccca ngctggaaca atacgactgg caatggccaa agccttgtgc 660
actttgtccc cccaagacaa agtccaattg gatnaaaaca agctgggact acttactact 720
gatccncttt ttttaaggga cggnaaaaaa cccn 754

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<210> 2974

<211> 577

<212> DNA

<213> Homo sapiens

<400> 2974

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ggagaagtta gagtccttag aaaaaaatat ggccattctt gatccaccag atgctgacca 60
cttatacagt gcaaaggtaa tgctgatggc tagccctagt atggaagatt tatatcataa 120
gtcatgtgct cttgctgagg acccacaaga acttcgagat ggattccaac atcctgctag 180

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acttgtaag ttttagtg gcatgaaagg caaggatgaa gctatggcca ttggaggcca 240
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 agctcatgtg gagacagtgg tttattttt cccggatgtt tggcattgcc ttcccacccg 480
 ctcagagtgg gaaaccctct cccgaggata caagcagcag ctggtcgana ancttcaggg 540
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<210> 2975

<211> 903

<212> DNA

<213> Homo sapiens

<400> 2975

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 cttcaaatga attgagaggg cttaatgaga aaatgagtaa taaatgttcc atgttaagta 180
 cagctgaaga tgacataaga cagaatttta cacagctacc tctacataaa aacaaacagg 240
 aatgcattct tgacatttcc gaacacacat taagtgaata tgacttagaa gaactanggg 300
 tagatcacta taaatgtaac atacaggcat ctgtacatgt ttctgatttc agtacagata 360
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 agaactgaat ttattncccc agaagaaaac ngaatttggt ttcaccggta cagtctttac 720
 tanactgttt cagactagtg gaaaaaaaaat cngaattttt gggtttcnca agctaccag 780
 aaaaagaatt ggtatatgcc atgtttttta natattgggg aaaaagaaaa attcnaata 840
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aaa

903

<210> 2976

<211> 746

<212> DNA

<213> Homo sapiens

<400> 2976

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aatcgaggac ttccaatatg acgaggactc ggagacgtat ttctatccct gcccatgtgg  180
agataacttc tccatcacca aggatcagtt tgtgtgtgga gaaacagtcc cagccccctc  240
agccaacaaa gaattagtta aatgctgaag aagccttcag gaatccaaat cctgaacatt  300
tggaatgagc ccagatagaa atatcgaatg caaagctact ggcttcacag agacaaccat  360
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cttggtttca tcattttcat atcttaaacc aaattacttc ngtatctgac aacagcatca  600
tctacctcag tcattangat ttcttaataa aaaagaaatt gtatTTTTga cttggttatt  660
aanattatta anattagccc ttcctttgaa atatgacatc agctttgctg ttctaaattt  720
aaaattantt gcttcacng tancac                                     746
    
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<210> 2977

<211> 474

<212> DNA

<213> Homo sapiens

<400> 2977

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atatataggg tcttatatgt ttcttaataa attgatccca ttactttata gtcacagctc   60
    
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ctattagaag ttttaatgaa gactctccat gagcttaggc ttcaaattac ttgttttggga 120
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 gaggaacaga gaggaaaaaa attagcattt gttgagtgtt gacgatttgt agancatttt 420
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<210> 2978

<211> 715

<212> DNA

<213> Homo sapiens

<400> 2978

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 aataaagttt ctttattcaa aagcactttt tttttaaaagc cacaccaccc ccattctcag 180
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 gccgggatcg cggaaagtga tggctgtcgt cccggcgtct ctctcaggac aggacgtggg 300
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 tcaacagaat cttttaaatg aaagtgatgg aaaatcaaga tggttctact caccgtggtt 600
 gttggtaaaa tgttacatgt tntcgaaaaa ttcatgaaag caattatcca gantccacca 660
 atcgaatact ttgatgtttt tnaagaatcc naaanaacca aattctatgg gtcca 715

<210> 2979

<211> 671

<212> DNA

<213> Homo sapiens

<400> 2979

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gaatggagtc taaaccttca aggattccaa gaagaatttc tgttcaacct tccagctcct 180
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caccatttca atctgcatgg tatagtgaat ctgaaataac tcaggagaca cgctcaagat 360
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ctacctcagc tggganaaat gttggaaatg gtttaaacac attatcanat tcactcttga 480
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tgagagagaa gagagatttg gagagaagaa canattcctc tattagtaat cttatggatt 600
atagtccccc gaanttggtg atttcacaac ttentcctta tgtttcaana cagaattccc 660
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<210> 2980

<211> 508

<212> DNA

<213> Homo sapiens

<400> 2980

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cctttgcgcg gcacctggcg gtggcgggag ccgttgggct gagtcgggat cggggacgtc 60
gcccagagagc ggggacgagg aggtgtcggg cgcgggttcg agcccgggtgt cgggcggcgt 120
gaacttgttc gccaacgacg gcagcttcct ggagctgttc aagcggaaga tggaggagga 180
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gggcaaacgc agaggcggga acaaactagc cctcaagacg ggaatagtag ccaagaagca 360

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gaagacggag gatgaggtat taacaagtaa aggtgacgcg tgggccaagt acatggcaga 420
 agtgaaaaag tacnaagctc accagtgcgg tgacgatnat naaactcggc ccctggtgaa 480
 atgacgcccc tccccacct gcccatgg 508

<210> 2981

<211> 464

<212> DNA

<213> Homo sapiens

<400> 2981

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<210> 2982

<211> 497

<212> DNA

<213> Homo sapiens

<400> 2982

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 caaagacctg gagttccac tacctgcacc gctctggcca atcccatttg gaaatcagtc 180
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 aacgtgaagg tgagagacag aacataccgt gaagaaacca ctgagaatgg gagacagang 420
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<210> 2983

<211> 896

<212> DNA

<213> Homo sapiens

<400> 2983

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 gttacatttt atttttattt aaacctgggc caaaacaaaa ttattttatg ttaaaatgnt 840
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<210> 2984

<211> 745

<212> DNA

<213> Homo sapiens

<400> 2984

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ccttccagta tgggggcat agagacatcg gggacctggg atatttgttt tgtgcagaga  180
tctcctgcct gctgtcacca tgagaaacag tggagtggag tggatggatg gcctgacttg  240
aagaaagggc cctggaaagt tttctacttt gctattttga aattttttcc cttcttatag  300
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caccaccact cccgggtaat ttttgttttt ttttaataaaa aacagggttt ccttcctgtt  660
tttccaaaac tgggtctcaa accccctgat gtttgggtta accgcagac cctcgggcct  720
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<210> 2985

<211> 700

<212> DNA

<213> Homo sapiens

<400> 2985

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gatgcaaaat gtcngacaca ggtagtccag gtatgcagag aaggagaaga aaaatcttag   60
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acagcctcat ccttgagcac cagtgggagc tggagaagct ggagctccta catgaggtgg  180
aaaaaaccgc ccactttttg ctgctgcgtg agagacttgg tgacagcatc cccaaatccc  240
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tgagcgactc gttatcccc agcctcagca gtgggaccct cagcacctcc accagtatct 300
 cctctcagat ctcaaccact acctttgaaa gcgccttcac acctgagcga gagcagtggc 360
 tatgattcag gagacatcga nngcctgggtg gaccgagaga aagagctggc taccaagtgc 420
 ctgcaacttc tcacccacac tttcaacaga gaattcngcc aggtgcacgg cngcgtcagt 480
 gactgttnagt tgtctgatat ctctccaatt ggacgggata cctctgagtc cagtntcagc 540
 agtgcncccc tcaactccctc ctccacctgt ccctctcttg gtagactcta gggagcacct 600
 ctctgggata ngaagacccc aaaaagccct tcccgggcct ctantccctg ccanaattt 660
 gaaacaggtt tccanattgt tccccgcttg tgggaaaacn 700

<210> 2986

<211> 746

<212> DNA

<213> Homo sapiens

<400> 2986

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 tgtactctga cctgaatcct gaattttcct tgatgggtcaa aagattaaga aatcatgagt 120
 ggaggatctc aagtccacat tttttggggt gctccaattg ctccactgaa aatcacagta 180
 tcagaagaca cagcttcttt aatgtctgtt gctgacctt ggaaaaaat tcagctttta 240
 tacagtcaac attctttata tctgaaggat gaaaaacagc acaaaaatct tgaaaactat 300
 aaagtcccag aatctattgg ttctccagat cttagtggtc atttcttagc aaactgtatg 360
 aatagacatg ttcattgnaa agatgacttt gtacgttctg tttctgaaac acagaatata 420
 gaatcccaga agattcactc ctctagactg agtgatataa ctagctctaa tatgcaaata 480
 tgtggattta aaagcacagt tccgcatttc accgaanaag aaaagtatca aaagcttctc 540
 agtgaaaata aaattagaga tgaacagcct aaacatcagc cagatatatg tggtagaac 600
 tttacacaa atttgtttca gttggggcca taaatgtncg gctgtgttg atttggttg 660
 ttattactga aaaaattaat ntaggggnct gaaagttagt acaaaaaaaaa ttttgtgccc 720
 acccnaaatt tcctggaaan tacnaa 746

<210> 2987

<211> 646

<212> DNA

<213> Homo sapiens

<400> 2987

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tccggaagtg gcttctgcga caacatgctt gcggacctcg gcttaatcgg aaccataggc 60
gaggatgacg aggtgccggt ggagcccgag tctgactccg gggacgagga agaggagggg 120
cccattgtgc tgggcagacn acaaaaagct ttggggaaga accgcagtgc tgatttcaac 180
cctgatttcg ttttactga gaaggagggg acgtacgatg gcagctgggc cctggctgat 240
gtcatgagcc aactcaagaa gaagagggca gccactacat tagatgagaa gattgagaaa 300
gttcgaaaga aaaggaaaac agaggataaa gaagccnagt ctgggaagtt ggaaaaggag 360
aaagaagcaa aggaaggctc tgaaccaaag gagcaggaag accttcaaga gaatgatgag 420
gaaggctcag aagatgaagc ctcggagact gactactcat cagctgatga gaacatcctc 480
accaaagcag atacactcca agtanaggat cggaagaaga agaagaagaa aggaccggga 540
agcagganga ttttttgaag atgcntctca ntacgatgaa aacctctcgt tccaggacat 600
gaacctttcc cgccctcttc tgaaggccat tncagccntg ggcttc 646
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<210> 2988

<211> 766

<212> DNA

<213> Homo sapiens

<400> 2988

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attaaaaagg aagctcaagg ccaggcgcgg tggctcacgc ctgtaatccc aacactttgg 60
gaggccgagg ccgacgtatc acgagattag gaggtcgaga ccagcctggc caacatggtg 120
aaaccctgtc ttactaaaa atacaaaaac tagccgggcg tggcggcgcg cgcctgtnac 180
ccatgctact cggaaggctg aggcaggaga atcgcttgaa cccgggaggc ggaggttgca 240
gtgagccgag atcgcgctc tgcactccag cctgggacag agcgagcctc cgtctccaaa 300
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aaaaaataag gaagctcaag atgaanagtc agaagtggta acttgtttgt tgcacaagaa 360
 acaaatttag cattctatit nggggatcca gattaccaa aaaaaaanag aagtgaagtt 420
 atttctgcat taantatatt aataaaactt taccactaaa aacaattctg ttagangaac 480
 gccaggaag aaaatatttg agtttttaga gaagtcattt tttaaacttt tagaggttgt 540
 gacatttaan ttacataatt ttatttanta cctagtatgc aaagacattg ttctggggca 600
 tggcancaaa taaaagctt ttgtnaatcg cantgtcccc tcttattaac cccgcattcc 660
 tancaggttg gttttttttt gctggaccgc accacantcc gggttacacc aaaaaatatt 720
 ncctnatgtt atttttttaa gttgaatttt ttttngaat cccttn 766

<210> 2989

<211> 527

<212> DNA

<213> Homo sapiens

<400> 2989

tcatgatnaa acatctgttt ccactcatac tcgaagtggg aatctaaagc ggccaaagat 60
 tggaaagcgg ttccaggatt ctgaatttag cagttctcan ggtgaagatg aaaagacctc 120
 ccagacttca cttacagctt caataaaca attggagtct actgcacgcc catcagagag 180
 ctcagaagaa ttcttgaag aagaacctga acagagaggg attgaatttg aggatgaaag 240
 cagtgatnga gatgcacggc cagcactgga aaccagcca cagcaagaga agcaagatgg 300
 tgaaaaggaa tctgaattag agcctatgaa tgggtgagatn atggacgatt ctcttaagac 360
 ctcacttatn acagaagagg aagactccac tngtgaagtt ttagatgaag aattaaaatt 420
 gcagcctttt aattccagtg aagactctac naatcttggt ccactgggtg tngaattctc 480
 aaaacccctt ngaggttgat ncaccagatt agacccacg tntacct 527

<210> 2990

<211> 704

<212> DNA

<213> Homo sapiens

<400> 2990

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ggacggctta gccgcggtgc agactgcggc ggcggtggtc tgaggaagtt ctatcttggc   60
gctaaagcgg agacgcatcc cccgacccga ggctacgatg agcacaccgg ccgtgccccca  120
ggacctgcag ctgccccga gtcagagggc gcagtccgca ttcaaagagc aaagaagaca  180
aaaactcaag gaacatctgt tgagaagaaa aacgcttttt gcatacaagc aggaaaatga  240
gatgttatcc agtagagatc agagagttgt gacatctgag gaccaagtgc aagaaggagc  300
taaagtgctg aaacttaaaa caaaaatggc tgataaagaa aacatgaaga gacctgcaga  360
gagcaaaaat aatacagtgg tggggaaaca ttgtattcct ttaaaacctt caaatgaact  420
aaccaattca actgtngtaa ttgacacacn taaacctaag gatagtaatc naactccgca  480
tttgttacta actgaagatg atccccaaag tcaacatatg acattaagcc aggcatattca  540
ccttaaaaac tatagttaaa agaaacanat gactacngaa aaacaaaagc aagatgctta  600
catgcccag aaacctgtgc ttggatctta tcgtgggcca gattgttcca tctaagatta  660
attcnttttag aaaacctcta cnantcaaan atganaattt ctgc                      704

```

<210> 2991

<211> 663

<212> DNA

<213> Homo sapiens

<400> 2991

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agccaacacc gcctttctca gcatgggaga cctttgagcc catcagccaa gagccccctca   60
gccaagccag ctatgacaaa gccccagacc cagttcctga gctccaagac tcgttctatg  120
cagaactgca acgtgcagag agcctccaag agaagagcat aaaagaggcc aagaccaaatt  180
gcaggacaat tgcattccctg ctactgcag cccccaaccc ccactccaaa ggggtactta  240
tgtttaagaa acggcggcag agagccaaga agtacaccct ggtgagcttc ggggctgctg  300
ctgggacagg cgctgaggan gaggacggcg ttccccccnc gagtgagtcc gagctggacg  360
aanaagcctt ctctgacgcc cgcagcctca ccaatcaatc tgactgggac agtccttatc  420
tggacatgga gcttgccagg gcgggctcaa naacatcana aggccagggc tctgggctgg  480

```

ganggcagct gagtgaggtc tctgggcgaa ggggtgcagct ctttgaacag cancgcccgc 540
 gcgcagactc cagcacccaa ggaactggca cgggtcgaac cagcagccat gctcaacggg 600
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 ccc 663

<210> 2992

<211> 818

<212> DNA

<213> Homo sapiens

<400> 2992

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 acaatgtttt acttggtaca taaatgctgg ttttctttca gatttaagga catacacttt 180
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 ccgtgcctgg ctggacatgt aaatttgaag tgaatggta aacatccagc tagctnaaag 360
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 cctggggaaa attgtgactt tgtataactg ttgttgaaac cagaataaat tatatttcac 480
 ttgcatatgc ataaattatt aaaattttca gaagtcagtg atacagaagt actattttgc 540
 aatgttaatc tgtttgagtc tttgganaaa gtggtttcat tgtaggtac atagtgcact 600
 gttaatatatt taaacaagtt gttcactctt ccatttaagg gatagcagtt ccttgggtata 660
 aaatgactgg gatgaattat aaaggaatta tgtttgtcat gttgcccttt aaccagctt 720
 tagtaattac tataatctca tatttatgaa tanttcctgt taggttacag gaacaaatga 780
 aaaatatatt atgttttccn cnnccctttt aaatttaa 818

<210> 2993

<211> 630

<212> DNA

<213> Homo sapiens

<400> 2993

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cagaagaagc acaaatgctc agtgtattac agtaaacaca aaaccagcac agctgcggcc 60
agcagcacca gcacgactac tgaggaaaaa cagacttcac ccctgggcag ctactgcct 120
gctgctaaag aggacatttg cactgatgcc atgcgtgaga actggatcag cctcagatat 180
gcaagtggca taaatgtcaa cctgcagaag aatttaaccc ttcccaaaaa cttactgaat 240
aaagaagaaa acacactgaa aaacacaatt gttttcagta atccttcttc agaatgtant 300
atgaaggagg gagtacagac atgtatgttt cctaaggaaa ctgacattaa aacttcagag 360
aacacagccg agttcaagga acgggagctc tgtccactga agacctcaa gaaaactacc 420
tgaaaaccat ttaccaagaa actcacctca gtaccaccag ccagacttgc cagaaaattt 480
ccaggaaaaa tnatgggaat aaccagcaag ttctgtcna gaatgaagta aatcattgtg 540
aaaatttgaa gaaagggtga ccnaagcctt ctccgaaaa gaagattccc naacctctgn 600
agaaaacttg ttttctgana aacgggacnt 630

```

<210> 2994

<211> 523

<212> DNA

<213> Homo sapiens

<400> 2994

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gcagtttgtt ccagccggtc acggggcggc tatggcggcc acgttcttcg gagagggtgt 120
gaaggcgccg tgccgagctg ggactgagga cgaagaggag gaggaggagg ggcggaggga 180
gacgcccagag gacagggagg tgcgtctgca gctggcgcgg aagagggaag tgcggctcct 240
tcgaagacaa acaaaaacat ctttgaagt ttctttgcta gaaaaatata cgtgctccaa 300
gtttataatt gctataggaa ataatgcagt agcatttctg tcatcatttg ttatgaattc 360
aggagtctgg gaggaagttg gttgtgctaa actctggaat gaatggtgta gaacaacaga 420
cactacacat ctgtctcca cagaggcttt ttgtgtgttt tatcatctaa aatccaatcc 480

```

ctcggttttt ctctgtcggg gcanttncta tgttcanaaa atc

523

<210> 2995

<211> 728

<212> DNA

<213> Homo sapiens

<400> 2995

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aagatcacca ccccttgga gagatgaaag ctaccccgga gagctctcca attctgtatc 120
tacatatcga ccctttggc tgggcagtga atctccctat aagcagcctt ctgatggaat 180
ggagagacca tcttccctga tggactcttc acaggaaaag ttctaccag atacttcttt 240
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gaacctagag aagaaaccag ccaaattctat cctgaaatca agcaagctgt ctgataccac 360
cgagtaccag ccaattctgt ccagttatag ccacagagcc caagaatttg gggtaaagtc 420
tgccttccct ccattctgaa gggccctcct ggactctagt gagaactgtg accgtctctc 480
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gtcaccatca ccgaagtaag aatgattcat ttttcacccc tnactccaac cacaatagct 600
tgtctcaatc taccactggg catctcagtt tgccncagaa gcagtaccca gaatctcctc 660
ncccgatccc acatcgttcc ttttctctcc cgcaaaaaac ccttgccgct ccncggggtt 720
nccncccc 728

<210> 2996

<211> 461

<212> DNA

<213> Homo sapiens

<400> 2996

cacccattct gtcttcaga cagttctctt ccttctctgt actgcgtact gggtcaccac 60

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 tttgaagtgg cagaaccagg actggagctt agccctgctc accctagacc tatgcgcttg 300
 acaagtgcgt gactgtgaca ggcccatggg cccggactgc ccataggggt cactgtacca 360
 tggcaaaggc tgaggtgcac caagangctg tggcgtcntc acctgcctta tttgctggan 420
 aactgtngca aagaaccaca gactgggcga cttagacnat a 461

<210> 2997

<211> 675

<212> DNA

<213> Homo sapiens

<400> 2997

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 gtgtgttccc tgaaggcaaa gaatccccag gataagatcg tcttcaccaa ggctgaggac 180
 aatttgttag ctttaggact gaagcatttt gaaggaactg agtttcctaa tcctctaate 240
 agcaagtacc ttctaacctg caaaactgcc caccaactga cagtgagaat caagaacctc 300
 aacatgaaca gagctcctga caacatcatt aaattttata agaagaccaa acagctgcc 360
 gtcctaggaa aatgctgtga agagatccag ccacatcagt ggaagccacc tatagagaga 420
 gaagaacacc ggctccatt ctggttaaag gccagtctgc catccatcca ggaagaactg 480
 cggcacatgg ctinatggtgc tagaaaggta ggaaatatga ctggaaccac agagatccac 540
 tcagatcgaa gcctanaaaa agacaatttg ggagttgggg antgaatctc ggtaccactg 600
 gctattgnct aagggtgtat cctgaaaact gaagccngtt tgcccccggt ttccccnggg 660
 aaagnttggg aaaca 675

<210> 2998

<211> 702

<212> DNA

<213> Homo sapiens

<400> 2998

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ggagaatggc tcaactctcc aaatagagag aatttctatc agttgcaagt acgaaaattt   60
cctgccgatt atataaaata ctgggagttt gcagtttatac tggaagaatg tgaactggct  120
aaacagcttt atccaaagga aaacgatttg gtgttttttag ctctgagag aataaatgaa  180
gagaagaaag atacagagag aaatgacata caagatctcc acgaatatca ttctggttat  240
gttcataaat ttcgccgcac gtcagtcatac cgtaatggga aaactgagtg ttacctttcc  300
atccagactc aagagaactt tccggccaat ttaaacgaac ttgtgaattg tattgtaatc  360
agtttctctg taactacaca aaggaagttg aaagccatgt ctctgttggg tngtcggaac  420
caactggcta gagctgttct gaatccaaac cctatggact tctgtacaaa agatttactg  480
actacnacat ctgagagaat tattgcgtnc tttagagatt tcaatgaaga tcaaaagaaa  540
gcaatagaaa ctgcatatgc tatggtgaaa cactcaccat cagttgccaa aatctgcttg  600
attcatggac cacctggaac nggaaaatcc aaaactattg ttgggctcct ctttcgtctn  660
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```

<210> 2999

<211> 605

<212> DNA

<213> Homo sapiens

<400> 2999

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agaaaaggaa ccaaggccag agagacaaat aatgcctcat gtcccactgc tttaaaatta  180
cattaattta taaaatggcc actatgggct ctttttgact gtttctcgga gtaggaacaa  240
aataagacat taaatggtgg cttgaagaaa aagatacnca ttttcagaaa aaagaaaggg  300
gagggctgca gggatcctgt cttggcgagg gctctccagt ctgttggatt agcacaggga  360

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cacgcttatg gtgccatgac gccgaaacta gtcntcccc atctccagca taggcaacgg 420
 cctgcagggg tgagtgtcag aaaagacitc ctttgaaga aaagggtttt tttttgttg 480
 tttgtttttt gttttttttt gtttgtttgt tttgggtttt tttcctgaaa tttcctgata 540
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 cctga 605

<210> 3000

<211> 642

<212> DNA

<213> Homo sapiens

<400> 3000

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 agatgagaat tcagataaag agatggaagt agaagaatct ccagagaaaa taaaagtaca 180
 gacaacacca aaagtagaag aagaacagga tttgaaattt cagattggag aactggcaaa 240
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 aaacgaacag tcgggcgagt ctcagtggga gtttccagat ggtgaagagg aagaagaaga 540
 aagccccgcn cnagaaaata ganatgagac tcttgccaaa cagaccttga aagacaaaac 600
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<210> 3001

<211> 579

<212> DNA

<213> Homo sapiens

<400> 3001

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agagggtgt	aaattttgaa	ttccagtgtc	ggatcctttc	aagcactgag	aaattccttc	120
tcaggtttct	ttttttgggg	gagacagggt	cttgctctgt	caccagact	ggaacacagt	180
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tggccnggtt	tctgttggaa	acccanattg	tgacaagaca	tttgttttct	tccgaatcac	480
cagatttgca	gcttactgtg	ccnaaagtgg	actggctgcc	ggggcccntc	aaatgccctc	540
tggcccatgg	cacactcanc	agaangccaa	accntgct			579

<210> 3002

<211> 784

<212> DNA

<213> Homo sapiens

<400> 3002

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aagtttctga	gggtaaagga	tcacatgacc	ttcaggaaac	tctctgcctc	ctgtaggtgc	120
tttctatct	cccccatcct	tcctacccc	ttttcccttt	tccttctct	ctttttctct	180
cactgtcact	ctgtctacac	acactggcat	cttttgaaca	ctaaaagtaa	gcactgtttt	240
ttaaaaaagt	aattatttgt	tggatcagat	acttttatcc	caagtgaata	ccttactga	300
gatgtggcca	atgcaatagt	ttcacagtaa	aaacagtgcc	tataagaaaa	tagatcacat	360
actatttttc	aatgatatta	agtgtatttt	gtaactatit	tcatttggtc	cttggttaaca	420
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ngtgcaccta	gtttgccctt	aatgggaagt	atacttgctg	tgtggattga	tagcaccttc	540
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ttgcatacag	aaacaccoga	gctcagttga	atgtctgttt	gantttttcc	tattttatit	660

ttgaaaacca gtcccccttt gtcttttttg tcncccnagg antggaattc cattggcnca 720
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 ncct 784

<210> 3003

<211> 579

<212> DNA

<213> Homo sapiens

<400> 3003

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 ctctttaatt tntcccccta ggaatcctcc ctcaatttca aagccctcct tcccttctcc 120
 tggctcttcc cctctaattc ccttctcctt ccaactttgg tttctggctc cttttcctca 180
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 gcaaccatgc tgctctgtct gccctggctc caaatccctc cttctctenc caactctcca 480
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 tagaaaacca ntttttctct aaaatttctc tagntggct 579

<210> 3004

<211> 698

<212> DNA

<213> Homo sapiens

<400> 3004

tgattttgga gttgctggct agctgacaga tacacagatt aaaagaaata cttttgtggg 60
 aactccattt tggatggctc ctgaagttat tcaacagtca gcttatgact caaaagctga 120

catttggtca ttgggaatta ctgctattga actagccaag ggagagccac ctaactccga 180
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 gcagagcaag atcttggtcc aaccctgagt tgtttgtcta tgataatcac cctgcatttg 600
 ctgaacttaa accgcaggac aagaataacg ctngcaggaa tcaggcgatt gaagaactcc 660
 aaaaaaattt tgctgtggct gaancncct gtcccggc 698

<210> 3005

<211> 756

<212> DNA

<213> Homo sapiens

<400> 3005

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 aaaaaaaaac ccttatactc acctgcgttt tcatttgttt gacatttgtc tattattgga 420
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 gtaaaatccc aagtcatttc ttttttact ctattcagca acagaattaa gtggatgaag 660
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756

<210> 3006

<211> 706

<212> DNA

<213> Homo sapiens

<400> 3006

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cagcactttc aatgatagag tttttgccag tgaattgaat gcnggaatta taaaaacaga 480
tcaaactatg aaaagatgat gtttaaagaa gctttgaaaa cagggttttt tgaatttcag 540
gccgcaaaaa ataantaccg tgaaattggc tgtggaagg atgcacanaa aacttgtgtt 600
ccggtttatt gaanttcaaa cacttctcct cctccattc tgtccacatt tgtgtnaaca 660
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<210> 3007

<211> 665

<212> DNA

<213> Homo sapiens

<400> 3007

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acatgaatac atgagtatgg aattattgca agaagctggt gtctccgttc ccaaaggata 180
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 canca 665

<210> 3008

<211> 497

<212> DNA

<213> Homo sapiens

<400> 3008

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 agcctggtga agcccaggag agagaggcac ttcggggcgc agtcctaaat ggcggccctc 420
 ccagcacgcg catcacacct gaattctcta aatgggccag tgatgaaatg ccatccncca 480
 acnntggtga aagcagc 497

<210> 3009

<211> 495

<212> DNA

<213> Homo sapiens

<400> 3009

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aaaccaggaa aatggcagaa atgaaaactg aagatggcaa agtagaaaaa cactatctct 180
tctatgacgg agaatccgtt tcaggaaagg taaacctagc ctttaagcaa cctggaaaga 240
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ctcagagcag aagttatgac tttgaattta tgcaagtiga naagccatat gaatcttaen 420
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<210> 3010

<211> 612

<212> DNA

<213> Homo sapiens

<400> 3010

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aacggactaa tacagtaaat tgggtaccagc agagtggggc attgctgaaa agataactga 180
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cagaagaana caggaaaatg tgggaaagtt tggaacttcc tagagacttg ttgaatgcct 300
ttgacaaaaa tgctgattgc gacatggaca ataaaatgca ggctgagatg gtctcagatg 360
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gactagcgtc attttacctc tgccctagag atttgtggaa ctttgagaaa gatgatttag 480
ggtacctcgc anaanaaatt tctaagcagc aaagcattcc agaagtgagt tggatactgt 540

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taagggcant cagttttaaa agggaaacag agcatntaaa ttcanaaaat ttgttancct 600
gatctggcan aa 612

<210> 3011

<211> 473

<212> DNA

<213> Homo sapiens

<400> 3011

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tgctctgggt gccgctgctc aagctgccct cgtcagagtc cagcaagggt cccttgccag 180
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ttgcctcaaa gcttgtgtaa gatttaacat taagatttta ttttatgata tgacttcagt 360
tagcaactat cctggtaatt aggcanaaat gtagcttctg aaaacatgga catttttgac 420
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<210> 3012

<211> 727

<212> DNA

<213> Homo sapiens

<400> 3012

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ctccagttaa gacttgagat gtccacagtg gcagccacta gcttgactgc aacttacgag 180
agaccctgag ccagaggcac tcagttaagt catacacagt ttcctgaccc gtaaaacctg 240
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 tttgtgggga ataaacaagt ntaattacaa tttctaaacc tattgtttta ttctcaaata 480
 tnattacnat ttaaacagga tattgtanag ctccatcata gggattaaca ctnattagaa 540
 ttaaagaacg tttttgtgaa tgtcagcttt tttttttta aataaacact cntcccttga 600
 taatgttttt ctttttcata aaattaaaaa aaaaatgtgg gttgtantan gtgtatatat 660
 ttatgttggg acatgaaaat nttttgatac agggcntgac gtgttntaac cccctcctgg 720
 gaaaaat 727

<210> 3013

<211> 539

<212> DNA

<213> Homo sapiens

<400> 3013

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 ggttgccatt aggggactcc tgaggctcta tctccaggct gcggtgactg cactttccct 180
 ggagtggaag ctgctggaag gcggaccggc cgccatgtcc acgttcaggc aggaagacgt 240
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 gtcattcanc cggcgtgggg tgagccggga ngaaatcgag cgggaagtga acatcctgcg 420
 ggagatccgg caccccaaca tcattaccct gcacgacatc ttccanaaca agacggacgt 480
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<210> 3014

<211> 383

<212> DNA

<213> Homo sapiens

<400> 3014

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gaccctatta tttaaaaatg gctcaactga aatatatgga gaatgtgggg tatgccaag 180
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ngaattgtac tcggggaaaa aagattccag cgcacttttc caacacatca ctgcattatt 360
tgaattgcnc atnggcacct ata 383

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<210> 3015

<211> 767

<212> DNA

<213> Homo sapiens

<400> 3015

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tgccttagaa cataatttta gtgccatcta tggatgattg actttaccag taaaccacat 180
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accatataat attaaatata agcccaaagt taaatcacca cagagacctt cagattggtc 480
caaaaagaan aatgagcccc tagggaaatt gacttcttta tttaaactta ttgtgaaagt 540
gatctattct ttccacacac tgagcttcaa gggaagcaca ttctgatncc ctcttcccta 600
ttggcaactc natccccggc attatttccc gtgttcttgg gcatatttct tttgccttct 660
atgatccgaa aaatatttgc aactttaacn agacctctgg ctttttttat gaaaactcca 720
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<210> 3016

<211> 585

<212> DNA

<213> Homo sapiens

<400> 3016

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gactcaccct gggccggggg tgaggcttgg actgtttctt tttccaaaag aggagctcaa   60
aagagaaagt tcattctagaa atctcaaagc catgtctcag gatgaactan agtatgccct  120
tacaggggat cagtgtcatt caaggatgtg actgtggact tcaccagga ggagtggcag  180
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aaaaaagcta tggacccaaa aanttttccc aagttacagc tacctagaag aagatgggaa  360
aactgaanat gtcttagtga agttcaaaga ataccaagac aggcattcta gaccctcat  420
attcatcaac cacaaaaaac taattaagga gagaagtaat atttatggta aaacatttac  480
tctaggcaag aaccgtatta caatactatg ttaatatnaa cctgatggaa aagttttgaa  540
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<210> 3017

<211> 755

<212> DNA

<213> Homo sapiens

<400> 3017

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attatgatgg aagattaaag tgtggtgaca tgattgtggc cgtaaatggg ctgtcaaccg   60
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tgaccgttat ttgttggcct ggcagccttg tatagatttt ggaaattggt ttcaaattct  180
gcatcttcct ttttttagatt ttgaaaagaa aacccttttg ttccattgtg tttgtggttt  240
aggagctgct gacactgctg gtatacacag ggccaaaacc cactaagatt gtccgtttat  300

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gtttatttaa atggtttcct aagttagtta cttttctttt agcttggaag cagtcttcca 360
 ctaacctttg tgagtttata ttttcagaat tcagacttag ttgttaaaat gttacctatg 420
 gtaatgagca aagctcaccc aaactgtgcc ccanatggag taaagacctt ctggtgggtc 480
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 ccattctccc acctcancct cccaattac ttgga 755

<210> 3018

<211> 469

<212> DNA

<213> Homo sapiens

<400> 3018

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 gtattttacc caatactgtt agtgtataat aatttacaga atgaatttta ttactttgtg 120
 gtttttttct taatgtaaca tttcaaggag cactatatat atacacacat atatatacac 180
 cttggcttat gactgaaata atggagcaaa ttattaaata cagacagact tgagagataa 240
 ctgaaaatta aaagaactcc tctgagagaa aaaaaaatat gacactgtta tgatgtttaa 300
 taaagttgca tgatcatttt tcacatatct acttgaggct aaaatacatt tgcacacttt 360
 atgttttaca aatatntttc ttttaagggt aatatccccc catcccnaaa cagatnctag 420
 gatnaaaatt ccctaagaaa cacttattgg accctgaatt ttaaaaatt 469

<210> 3019

<211> 439

<212> DNA

<213> Homo sapiens

<400> 3019

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agtcgtggct gcagcgctga ggcgagaggt tgggtgggtgt ctccggccat aatgacccag 60
gctgagaagg gtgatacgga gaacggaaaag gagaagggcg gcgagaagga gaaggagcag 120
cgcggcgtga agcggcccat cgtgcccgcg ctgggtccgg agtcgctgca agagcaaadc 180
cagagcaact tcatcattgt catacatcca ggttcaacaa ctttaaggat tggtcgagcc 240
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cagcccctat acaaggacag ttggctccta agggagggac taaataaacc agaaagtant 360
tgaaccaaag acaaattggc cttaaantgg tggatcaagc aatatggtct aaaaagatgt 420
ccattgttac aagacgcnt 439

```

<210> 3020

<211> 803

<212> DNA

<213> Homo sapiens

<400> 3020

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ttgttggttg aaatgtaagt cttttcctaa agttttaatc agaggtagcc atcactaaga 60
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cttgtattat actaattatc ttcattatta acgatcatat tagagccact gacatgtccc 180
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ctgtcccaa gaacttggct cgagatggga ttaccgaat tacaatgcng ttttccactg 720
gttactcaa ctgatcttat ctcatcntg ttactactg tgcccntnga accccaaaag 780

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tggaatattt tgtctcntta ttt

803

<210> 3021

<211> 639

<212> DNA

<213> Homo sapiens

<400> 3021

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acagaaacaa gtggtacagg caacagctga acagatgcgt ctcgctcaag tgatctttga	180
taagaatgat tcagattttg aagctaaagt taagcagctt atggaagtga cagggaacaa	240
tcaggatgaa tgcatagtgg ccctacatga ttgtaatgga gatgtgaaca aagctatcaa	300
tatattgctg gaagggaatt cagacacaac ttcatgggag actgtagggt gtaagaaaaa	360
gaattttgca aaagaaaatt cagaaaacaa agagaataga gagaagaana gcgagaaaga	420
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atttagaggt gaaaaaaatg gaattgattg caatcaagtg gacnaacctt cagatcgtgg	540
caagcgagcc cgggggttnaa gatttggacn tggcanaagg anaagggcag gaaggttctc	600
aaccaaggc atggggacat ttaatcctgc anactattc	639

<210> 3022

<211> 585

<212> DNA

<213> Homo sapiens

<400> 3022

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cctttgctcg cttctgtcaa gaatgtggct ctctgtccc acccatattt ggctgtcgtc	120
tcccaccccc agaaggagct cagatgggct tgtgtgcaga atgcanaagc ttggtaccca	180

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 gtggtcncctg gaatctctgg gaagcgtcct tctgcggctg gtgtggaacc atgctcggca 480
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<210> 3023

<211> 464

<212> DNA

<213> Homo sapiens

<400> 3023

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 gaagtgtgct gcncacttgg aatgaaatct attactttgt ggaacagttg gctcacnaat 360
 tcatcaaccc acagttgaaa atgtccttta ttgttttctc caccccaaga acaaccttta 420
 tgaanctgac ggaanacaga aaaccantcc ctcnngcct anaa 464

<210> 3024

<211> 840

<212> DNA

<213> Homo sapiens

<400> 3024

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 cctttcacct tctgttgcc tccaagtcc caaagaagtc aattttgttt caaggggagc 180
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 atgggtctgaa aaagtctttt tcttgctgtg gaattgcaat tgcagttnaa tatttttgga 600
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 cctgccccgg atggcttttg ggaaaaaaaa attgcttcct catgaatgaa cagggtttct 780
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<210> 3025

<211> 622

<212> DNA

<213> Homo sapiens

<400> 3025

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 tgggtgtctga aggtgtattg agtgattttg tggagggcag aagtaggaag tctttgggac 180
 aaaactgtat ttaccttggg atctgtgaac aagaggaacc tcagcagcca ggacaggcag 240
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 ctgccccatc tgcctggaac tcctgacaca acccctgagc ctggactgcg gccacagctt 360
 ctgccaagca tgcctcactg caaaccacaa gaagtccatg ctagacaaag gaganagtan 420
 ctgccctgtg tgccggatca gttaccagcc tgagaacata cggcctaata ggcatgtanc 480

caacttagtg gaaaactcag ggaggtcaag ttgagcccag aagggcanaa agttgatcat 540
tgtgcaccca tggaaanaaa cttctactct tctgtcanga ngacgggaag gtcatttgct 600
ggctttgtga gcggtctcan ga 622

<210> 3026

<211> 631

<212> DNA

<213> Homo sapiens

<400> 3026

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cgttgggagc gggagtgcag aacgtggtcg tggcggcggc ggtgagaaga gcgaggcgga 120
ggaggggggtg ccatggccgg gcagcagttc cagtacgatg acagtgggaa caccttcttc 180
tacttctca cctccttcgt ggggctcatc gtgatcccgg cgacatacta cctctggccc 240
cgagatcaga atgccgagca aattccatta aagaatatca gaaaagtata tggaagggtg 300
atgtggtatc gtttacggtt attaaaaccc cagccaaata ttattcctac agtaaagaaa 360
atagttctgc ttgcaggatg ggcatgttgc ttattccttg catataaagt ttccagaaca 420
gaccgagaat accaagaata ccaccccttat gaagtattaa atttggatcc tggagccaca 480
gtagcacaaa ttaaaaaaca atatcgtttg ctgtcactta aatatcatcc agataaagga 540
ggtgatgagg ttatgtcatg aggatacaaa acttatnctg ctttaaccga tnaaaatccc 600
gaaaaatttg gaaaattgga atccaatngg c 631

<210> 3027

<211> 491

<212> DNA

<213> Homo sapiens

<400> 3027

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cactgccacc accctgcaca cagtctgggt cccctccgaaa gaagcacgcc aaccttaaca 120
 tcccctacag catcttgggtg cttcacacac catttaggag gccaccctaa cgaggcaaga 180
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 gtacctccac tctgggcagg ganggcctgt ctgtgactcg ctctggaccc cacttcccgc 360
 tctggccaag ggctgtcttc tgtgcacata gctcaaganc ctgcagcant tccctgtatg 420
 ggtggatgtc ctcaggggcc aanaaaaaa naatggggac aacagaaacc tgctttgtag 480
 gggattatgt t 491

<210> 3028

<211> 711

<212> DNA

<213> Homo sapiens

<400> 3028

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 ttccactggc caggattttc ctacatagtc agaacttaca cattactaga ggcacaccca 180
 ccaaggagta ttgtgtctac ttttatctgt gcaccagcca caaatacca cattggaaag 240
 acccatttgt gatgggtaaa catcccttcc tgtctccac aaccctgtg actgccctgc 300
 atgtgttcat gacctccgaa ggcccaaatt catgaagcag caaaccagc aaatctccac 360
 cccctgcct caggacctct gctgaagang gggatgaagt gggtctccan ggaagcantg 420
 ggggccttgt tggcaactct gcanttgga agggcaccgt ccggaagaaa cagnctcta 480
 cacaccccc actctactta tcatccctgc tcacacaccc ttgtccaagg ctttatgcct 540
 cggatttatt tttcccaatc cagaagnaca gtgatanatg cnttttcccc aggctgtctc 600
 aaaaaggtcg ctcaatgtnt actgttgtca aaattgctga aatctcccc cccttttgggt 660
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<210> 3029

<211> 666

<212> DNA

<213> Homo sapiens

<400> 3029

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aagccgagca ctgtataaat gacatcgcat ttaagcctga tggaactcaa ctgattttgg 180
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acagaaagtt tccttctacc agctgaatgg aaaacagatt ggaaaggatc gggcacagaa 600
ctttgaccct gctgcatcan ctactttact aaangcnaat tcnttttgct ggggggtcaa 660
acaanc 666
```

<210> 3030

<211> 669

<212> DNA

<213> Homo sapiens

<400> 3030

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caaggctacc tccagctgaa aggactgtca ctgcaagcaa aacaacatgc agaaaaagcc 180
agacaaatcc tcgccaactc cattgtgcct ccctatagtg agaatacaga tgttttcaag 240
ttttccattg agcttttcca taccatgggc agagctttac tctcccttca aaagtatcct 300
```

tttgcctcta acttttataa atagaaatac tattcacgta acacttacac gccaaagtaaa 360
aagctgatgc tgatggatga cttaggaagt gtgattggaa gtatgggagc caaggaagtt 420
caggacatgg ggtgtagaat ctagaaccaa gtggaaaatt tcctgaacac aattcagatt 480
taaggaagct gcagagaatt tgacaaaagc agagagactt tcaaaggagc tgctacaatg 540
tggaagaatt atgaaggaag aatggataga aattgaagca cggatcagat tatcatttgc 600
acaggtgtat caaggtcaga agaagtcaaa agaactttgt ccnctntcc ancactttgg 660
gaatatgtt 669

<210> 3031

<211> 568

<212> DNA

<213> Homo sapiens

<400> 3031

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gtggacctgg tcagccctac ccactgacc ccaccggacc caggcgcggc ctccgccaca 120
gccacagccc ctgcccctgc tgcggcgcgcg cgaggcgagg cgatggccaa ggtgtcggtg 180
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actgatgccg tgggtgtgac tgtgtcctc atcacctgca cctaccatgg acaggaattc 480
ctcccagtgg gctactacgt ctaccacgag ttactccac cctgaactgc gtttagaaac 540
cccgccccat naaaccenna tttctccc 568

<210> 3032

<211> 671

<212> DNA

<213> Homo sapiens

<400> 3032

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actcactggg gcttccttcc gtctcgctcg gagtttccct ctgcgttcgc tccgcgctgc 60
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gcgatgccgc ttcctccacg ccgccctcga cgcgcttccc gggagtcgcc atctacctgg 180
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gcttccgcgt ccttgacgcc tgcagctccg aagcgacaca tgttgtgatg gaagagacct 300
cagcagagga ggccgtcagc tggcaggagc gcaggatggc agctgctccc ccgggttgca 360
cccccccagc tctgctggac ataagctggg taacagagag cctgggagct gggcagcctg 420
tacctgtgga gtgccggcac cgcctggagg tggctgggccc aaggaagggg cctctgagcc 480
cagcatggat gcctgcctat gcctgccaac gccctacgcc cctcacacac cacaacactg 540
gcctctccga ggctctggag atactggncg agгнаааааа ctttgaaggc agtgagggcc 600
gcctcctcaa cttctgcaaa ncaacctcng tgctcaaagg ccttccagcc ctgtcacaan 660
cctgaagcaa n 671

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<210> 3033

<211> 366

<212> DNA

<213> Homo sapiens

<400> 3033

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aaaaagggag agaggacaag ggtgacaagt gggggtgaga gatcaaagat ggggcgggag 60
tgtgcctagg gttgtctctc catgagtgtc ctcttccct actcttcctg ttccagggtg 120
agcgtcggac catgtggaag tttctgaggc tggggagccg gataatgggg ggtggggccc 180
gttggggggg aaaggggcaa tagcttccct tcacaagcta acctccgctc ttcccagttc 240
tcttgactaa aatgggggaa cacattgggc ctggcaccaa tggggacttt gccccgccgg 300
agccccgcc gagaggaacc cctgccaac cctagggagc ttctatgagc tgcacctct 360
ntgcnc 366

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<210> 3034

<211> 495

<212> DNA

<213> Homo sapiens

<400> 3034

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ctggaatgag gagctgcaga cgacgagggg gctgcctcgc aagaacctgc ctgagcggct   60
gctccgagaa agggccatat tcaaggtgca cagcgacttc accgcggcag ccaccagggg  120
cgccatggcc gtcattgacg gcaacgtgat ggccatcaac cccagcgagg agaccaagat  180
gcagatgttc atctggaaca acatcttctt cagcctgggc ttcgacgtcc gagaccacta  240
caaggacttc gggggggacg tggcggccta cgtggcgccc accaacgacc tgaatggcgt  300
ccgcacgtac aacgcggtgg acgtggaggg gctgtacacn ctgggcacgg tgggtggtgga  360
ttaccgcggn taccgggtca cggcccagtc catcatcccc ggnatcctgn ancgggacca  420
ggagcagagc gtcattctacg gntccatcga cttcggcaag accgtggtgt cacaccgcg  480
gtacctggan ctgct                                     495

```

<210> 3035

<211> 395

<212> DNA

<213> Homo sapiens

<400> 3035

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taagtaacgt cagcctgaga actgagtagc tgtactgtgt ggcgccttat tctaggcact   60
tgttgggcag aatgtcacac ctgccgatga aactcctgcg taagaagatc gagaagcggg  120
acctcaaatt gcggcagcgg aacctaaagt ttcagggggc ctcaaattctg accctatcgg  180
aaactcaaaa tggagatgta tctgaagaaa caatgggaag tagaaaggtt aaaaaatcaa  240
aacaaaagcc catgaatgtg ggcttatcag aaactcaaaa tggaggcatg tctcaagaag  300
cagtgggaaa tataaaagtt acaaagtctc cccagaaatc cactgtttta accaatggag  360
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*<210> 3036

<211> 568

<212> DNA

<213> Homo sapiens

<400> 3036

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ggggctggac tggcggagca ggtgggggtcc gcggccgccg gagcgttccg gtcggcgtct   60
gggcatctcg gcctcggcag aaagcgcgac cgccctgctg cgcgggggccc gcggcgatgc  120
cgttcctgca cggttccgg aggatcatct tcgagtacca gccgctggtg gatgcgattc  180
tgggctccct ggggatccag gaccccgagc ggcaggagtc tctggaccgg cccagttatg  240
tcgccagcga ggagagccga atccttgttc tcttgagct gctggagagg aaagcccact  300
ctccctttta ccaggaaggc gtcagcaacg ccctgctcaa gatggctgag ctggggctga  360
cgcgggcggc cgacgttctc ttgcggcatg gggccaatct caactttgaa gaccagtc  420
cctactacac ggccttgca atcgccgtcc tgcggaacca gccggacatg gtggagctgc  480
tggtggcatc acggggccga cgtaatcgg agggaccgga tccacgagag tagccccttg  540
gacctggcca ncnagacct taacncct                                     568
    
```

<210> 3037

<211> 538

<212> DNA

<213> Homo sapiens

<400> 3037

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gtaagtccag agagtttagt gtccacacct agactggaat tgaaagacac cagcagaagt   60
gatgaaagtc caaaaccagg aaaattccaa agaactcgtg tccctcgagc tgaatctggt  120
gatagccttg gttctgaaga tcgtgatctt ctttacagca ttgatgcata tagatctcaa  180
agattcaaag aaacagaacg tccatcaata aagcaggtga ttgttcggaa ggaagatgtt  240
acttcaaaac tggatgaaaa aaataatgcc tttccttgtc aagttaatat caaacagaaa  300
    
```


atgcaggaac tcaataacga aataaatatg caacagacag tgatctatca agctagccag 360
gctcttaact gctgtgttga tgaagaacat ggaaaagggt ccctagaaga actgaagcag 420
aaagacttct tctaattgca actgggaaga gaacactttt gattgatgaa ttgaataaat 480
tgaagaacga aggacctcng aggaagaata nggctagtcc cccnagtga tttatgcc 538

<210> 3038

<211> 483

<212> DNA

<213> Homo sapiens

<400> 3038

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agtgtcttcc atgaagaaat gatgaatatg cgacaggcta ngctggatta tcagaggcta 180
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tgtcatactc cccacagcaa tgatcatcta catggtattg atggtccaac tgctgtcctg 360
aaaccagacg aagtcatgc tccatcagta ngctcctctg ttntggaaga agatnctgaa 420
aacaccgtgg atnctgcttc caagccagga cttcnggagc gtctccaaaa gcatgatatac 480
tct 483

<210> 3039

<211> 534

<212> DNA

<213> Homo sapiens

<400> 3039

gatgaatgcn naggaagc agcttggcaa attgttatta tcaaccctta ctttgctaag 60
caagaaaact gaactgttac aagattacc ttgaaatgtc taccacaaaa tgttggtttc 120

tataaaaagt ttggatatac tgtatctgaa gaaaactaca tgtgtcggan gtttctaaag 180
 taaaaatctt gtacgaaaat tgtcaaaggg gctaattgcta caangctaca ctcttcctaa 240
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 ttgtaatact acnagtataa tgacntttaa aaaattactt tgggctgggtg ggacatgctg 360
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 tttaacttga atcttttcct gcattgtatt tttctaaaan tttggcttcc tttcttggtg 480
 atccanaatt tgggttataa nganttatat gtctgctatc tgtgttgctc nttt 534

<210> 3040

<211> 593

<212> DNA

<213> Homo sapiens

<400> 3040

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 gcttggcttc cacctttaac ccttcacct ggggancgtc ctctaacaca ttcagactac 180
 aagtcagac ccagganagc aaggcccana aagaagtcaa aatggggttt atattttcaa 240
 aatctatgaa tgaaagcatg aaaaatcaaa agganttcatt gcttatgaat gctcgacttc 300
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 tttaacagct ggagcgatta aaaaaaagaa nccagccttc ctggtcccga ttgttccatt 480
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<210> 3041

<211> 689

<212> DNA

<213> Homo sapiens

<400> 3041

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 ggagcagcaa ctggttgac gtggagcggc ccattcttcg catcccacaa cctgggcatc 600
 catcngcag cnanatatca acnaagaaat ttggggccaa cacagagatg catctaagtc 660
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<210> 3042

<211> 657

<212> DNA

<213> Homo sapiens

<400> 3042

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gctttgcata cctgtggtca ggagcccgtg ccagctatgg ggtcagaang ggccgtgtat 540
gcttcgagat gaagatcaat gaggaatct cctgaagca cttccgtcta cagagcctga 600
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<210> 3043

<211> 526

<212> DNA

<213> Homo sapiens

<400> 3043

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gcacagtatg accggcagat ccgcctgttg ggactggagg ccagaaaacg gctgcggggc 180
tctcgggtgc ttcttgtcgg cttgaaaaga cttggggctg aaattgccaa gaatctcatc 240
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gagcgagctc agaatctcaa ccccatggtg gatgtgaagg tggacactga ggatatagag 420
aagaaaccag agtcatTTTT cactcaattc aatgctgtgt gtctgacttg ctgctccann 480
gatgtcatag ttnaagtgga ccagatctgt cacaaaaata gcatca 526

<210> 3044

<211> 510

<212> DNA

<213> Homo sapiens

<400> 3044

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acagangtgc ctgcttcccc ttctgccatg attggaagtt tcctgaggcc tccccagcca 120
tgtggaactg acaacttgcc ttgatgatt ttcaaganag ttgtgctatg atgtggcaaa 180

agtatgcagg aagcaggcgg tcaatgcctc tgggaacaag gatccttttc cacggtgtgt 240
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 gccctcctct caacatccat tatctcaagc tcatcgacag ggaaaacttc gtggacattg 420
 ttgatgccna gttgaaaatt cctgtctctg gatccaaatc agaaggcctt ctctacntcc 480
 actcatccan aagtggcccc tttcnaaagt 510

<210> 3045

<211> 602

<212> DNA

<213> Homo sapiens

<400> 3045

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 ggctccaggg ccgaagcccg cggcgcccac tcgggggctg cgcctgcgcg ttggagaccg 180
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 catgctccct tacctaata actactatgg gaaccacac tcccggacac atgcttatgg 360
 ctgggagagt gaggcagcca tggaacgtgc tcgtcagcaa gtagcatctc tgattggagc 420
 tgatcctcgt gagatcattt ttactagtgg tgctactgaa tccgacaaca tagcaattaa 480
 gggggtggcc cgattctaca ggtcacggaa aaagcacttg atcaccaccc agacagaaca 540
 cnaatttttc ttggactcct gccgttcct ggaaacttaa ggctttcang tccctnctc 600
 cc 602

<210> 3046

<211> 607

<212> DNA

<213> Homo sapiens

<400> 3046

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cgacctattc agagttggcc aggagcagca ggcaccacag cctgtgtgtg tgcagataca  180
gtgtactact accaaatggt gcccagggtg actgctgtac tgcagactgc aatggcagct  240
ggaagtttag gtctctctct acctggatct cattacttgg gccgttttca ggatcgttta  300
atgtggataa tgattctgga atgtggctat acttactgct ctattaacat taaggggtta  360
gaattgcagg aaacatcctg tcatactgca gaagctcgca nagttgatga agtttttgaa  420
gatgcttttg aacaanaata cacaagagta tgttccctta atgaacactt tggaaatgtc  480
ttgacaccct gtactgtttt gcctgtgaaa ttgtattctg atgccaggaa tgttctatca  540
ggcataattg atctcatgaa aactttaaaa naatttaaag gtgaactcat taaantacnt  600
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<210> 3047

<211> 495

<212> DNA

<213> Homo sapiens

<400> 3047

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gcgggggctg aggggctgcc atggcggcgg cgggccggct cccgagctcc tgggccctct   60
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tgcacaacgt cacggccgag ctctttgggg ccgangcctg gggcaccctt gcggctttcg  180
gggacctcaa ctccgacaag cagacggatc tcttcgtgct gcgggaaaaa aatgacttaa  240
tcntcttttt ggcagaccan aatgcaccct attttaaac caaagtaaag gtatctttca  300
agaatcacag tgcattgata acaagtgtan tccctgggga ttatgatgga aattctcaaa  360
tggatgtcct tctgacatat ctcccaaaa attatgccaa naatgaatta ngaactgtta  420
tcttctgggg acaaaatcaa acattatata ctaacaatat gaccatactc nataagactt  480
ttcaanatna ccact                                         495

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<210> 3048

<211> 659

<212> DNA

<213> Homo sapiens

<400> 3048

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cattactana aagaatctta caaacaaagt tgaaggatat agtttctttg gtcccacgcc 60
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aacctcatag caaaccattg ccctcagata ttgcagtaat catgtacaca agtggatcca 240
caggacttcc aaaggagagtc atgatctcac atagtaacat tattgctggt ataactggga 300
tggcagaaag gattccanaa ctaggagagg aagatgtcta cattggatat ttgcctctgg 360
cccatgttct anaattaagt gctgagcttg tctgtctttc tcacggatgc cgcattgggt 420
actcttcacc acagacttta gcagatcagt cttcaaaaat taaaaaagga agcaaanggg 480
atacatccat gttnaaacca aactgatgg cagcagttcc ggaaatcatg gatcgggac 540
tncaaaaatg tcatgaataa agtccgtgaa atgaatantt ttcaccgtaa tctgtttatt 600
ctgggcctat nattaccaa tggaacanat ttcaaaanga agttntactc cactgttgc 659
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<210> 3049

<211> 728

<212> DNA

<213> Homo sapiens

<400> 3049

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agagttaaaa atcttaaaac ccataagtgc cactaggaag gaaaccctgt atatacctac 180
attgacccaa gaaatattta cgcaatccct agcagaacat tgtttctgag gaggcatatg 240
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tgagattgat ttgttggttc atgccaagtg tgttcacag gttgactttg aatgtggacc 300
 tctgagcatc cacgcaggat ggctctcagg tcccagtcac agacgtcgct tcctgggatt 360
 ccagcacgat gcctccatag ttgaaagact acacaaaaag ccacaatcat tgcccggcct 420
 cctgagtcac cttctatcta tactttgctt aaaagctatc ccagatactc ccccttgggg 480
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 agctcccact aagatcacgt tctgggtattt ctgaagttaa cacttgattt agccccctaca 600
 tatctttcca tatatcctat tatttctgaa tatatgtcct ccaaattccc ataaatatcc 660
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<210> 3050

<211> 602

<212> DNA

<213> Homo sapiens

<400> 3050

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 ttccccgtga ttggaactt tccaatccca gagaaaagtt gacaaaggga ctgcccagga 180
 ctgagtcctat atggaagaag aacttcctct tttctctgga gacagtggca agccagtaca 240
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 caaaaaata cctgcctca gctatgggan tggccacat attgtccttg cacaacagaa 540
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 nt 602

<210> 3051

<211> 670

<212> DNA

<213> Homo sapiens

<400> 3051

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acttgtaaac attcctatga ttgttactaa aatgtatfff catgtttaaa atgtttttgg 60
atattttggg ttaataacta ctacattgaa ttgcatgtta aggtgcanaa ataatacatt 120
aaaagattfff cactttaaat taattagtaa tattgagcgc tcaccctgtg cgtggccttg 180
tgctaaccat tagcactgca tcatttcaat tcttttataa gggcattcaa tactacaaaa 240
tcaacatgat ttcataaggt gcaaataaaa gttggtgaca gatttaatat aattttgatc 300
acaatttaca aatgatctff gcaaatagtg gtcagacggc attagttfff cccttagtta 360
agctaaatta aagggactcc ctcctgttat gattatatta ttattattat tattattatt 420
tttgagggtg agtttcactc ttgttgccca agctggagtg caatggcgcg atctcggctc 480
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ggaatacang catgcgccac tacacctggc taatttttgt atttttagtt ganatngggt 600
tttccacntt ggtcaggctg gtctccaaac tcctgacctc aggtgatncc gtccacctca 660
ncttcccaaa 670

```

<210> 3052

<211> 626

<212> DNA

<213> Homo sapiens

<400> 3052

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tgtgaagtca actttatccc agacagttcc atccaagggg agaattaagt agagaaattt 60
gtctgcaatc tcaatctaaa gacaaatcta cgacaccagg aggaacagga attaagcctt 120
tcctggaacg ctttgagag cgttgtcaag aacatagcaa agaaagtcca gctcgtagca 180
caccacacag aacccccatt attactccaa atacaaaggc catccaagaa agattattca 240
agcaagacac atcttcatct actaccatt tagcacaaca gctcaagcag gaacgtcaaa 300

```

aagaactagc atgtcttcgt ggccgatttg acaagggcaa tatatggagt gcagaaaaag 360
 gcggaaactc aaaaagcaaa caactagaaa ccaaacagga aactcactgt cagagcactc 420
 ccctcaaaaa acaccanggt gtttcaaaaa ctcagtcact tccagtaaca gaaaagggtga 480
 ccgaaaacca gataccagcc naaaattctn gtacagaacc taaagaagtg atacgtgaaa 540
 ttgagatgaa tgtggatgat gatgatatcc atagttcgaa agttattnat gaactcttcn 600
 gtgatgttct anangaangt gaactt 626

<210> 3053

<211> 483

<212> DNA

<213> Homo sapiens

<400> 3053

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 aagatgaacc aggagcagtt catttgagct gtgcaagacg ctttacaaca tgttcagtga 180
 agaccccatg gagcaggacc tgnccacgc catcgccacc gtggccagcc tcctgctccg 240
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 cactgaggag gacgagccac cagcaccga actgcatcag gacgcancca ggggagcttc 360
 nccccccagc tgcaggagac cccaagcca aagcaggcgg agacacaccc ctcggaacag 420
 cccacagga aaaccangtt gtggtggaag ggggcancng cnaaggacan ggctcaccct 480
 ccc 483

<210> 3054

<211> 411

<212> DNA

<213> Homo sapiens

<400> 3054

gactgcagag ccggggctgg gctangcgcg cgcttggaga gcattgcgcg cggctgggcc 60
 cgcgcccggc ggctcctcct cccactctgc tcctcctctt tttctcctc ctccgcctcc 120
 tcctccgcct cctcctcctc ctcttccctc tcctcttcaa ttctcccggg ggctcgactc 180
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 cacctagcgg cttcagggtt aatcccagacc gcagccgtcg ccgcctcggg canattttgc 360
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<210> 3055

<211> 514

<212> DNA

<213> Homo sapiens

<400> 3055

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 aagcagaaga aagtgcggcc catgtacctn aaggactacg agaggaaggt tatcttggag 180
 aaggcaggca aatatgttga tgaggagaac tcagacgggg agacttccaa tcacagactc 240
 caggagacat cgtcgcaaag ttatgtggag gaacagaaac agtcaagga aagcttccgg 300
 gcatttgttg aggacagtga ggacgaggac ggcgctgggg agggcggtc cagtttgcgtg 360
 canaaacgtg ccaaaaccag gcaggagaag cccaggagga ggccgactac atcgagtggc 420
 tgaagggaca gaaagagatt cggaacccan attccctgaa ggaactgacg cntctcaagg 480
 aatactggaa cgaccctnaa ttggatnaan ggga 514

<210> 3056

<211> 527

<212> DNA

<213> Homo sapiens

<400> 3056

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caatgttccc gagcctgatg gacatatcat atcaccactg ttggcaggat tttatatgtt   60
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aattgtgaag cttggacaaa tatatttcat tcaaagtgat gtggatttct acaatgaaaa  180
aatggattct attgttcagt gccgagccct gaacatcgcc gaggatctgg gacagattca  240
gtacctcttt tccgatnaga caggaaccct cactgagaat aagatggttt ttcgaagatg  300
tngtgtggca ggatttgatt actgccatga anaaaatgcc aggaggttgg agtcctatca  360
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ggcaaaaccg anagcccccga gctgcaggac agttcataat gggcctttgg ggaaataagc  480
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```

<210> 3057

<211> 572

<212> DNA

<213> Homo sapiens

<400> 3057

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aataaagcta agctgcgtgg gtaacttctt tttagttata taacagagtg ttatatgatt   60
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ccttgagaag atatatggaa tagatcttac gatcccatth tgatctgttt cttgcagaat  180
gcagttcttc atgttcagtt caattaaaag atgtttgaaa tggctctaac tggctggcct  240
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agctaattcta gtgtcctgag aaaaatgtga gttgttattg cctctgaaga gtaaacggtt  360
cactactgct gttccagaat gtttgactt aagacagttt gttgagagag atagaagatt  420
tggttaggtt tagactttcc acctgccggc tcgcattaac agcagtgagg gtggcgagga  480
ctgccttatt tggcgcgctc ccnatgttcc aggcacactg ctttggtgct ttaanangct  540
gcttcacgta atctccccng cagcctcaga na                                572

```

<210> 3058

<211> 487

<212> DNA

<213> Homo sapiens

<400> 3058

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ggactgagca ccttcgactt ccgcacgggc aagatgctta tgagcaagat naacaagagc   60
cgccagcgcg tgcgctacga ctctccaac caggtcaagg gcaagcccga cctgaacacg  120
gcgctgcccc tgcgccagac ggcgctccatc ttcaagcagc cggtgaccaa gattaccaac  180
caccccagcn acaaggtcna gagcgacccg cagaaggcgg tggaccagcc gcgccagctc  240
ttctgggana agaagctgag cggcctgaac gccttcgaca ttgctgagga gctgggtcaag  300
accatggacc tcccnnggg cctgcagggg gtgggacctg gctgcacgga tganacgctt  360
ctgtcggcca tcgccagcgc cctgcacact agcaccatgc ccatcacggg acagctctcg  420
gccgccgtgg aaaanaaccc cggcgtatgg ctcaacacca cgcancctt gtgcnaagct  480
tcatggt                                           487
    
```

<210> 3059

<211> 530

<212> DNA

<213> Homo sapiens

<400> 3059

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agcgaccgaa ctctggcggg ggtgggttaag acggcnaagg cggcagcggc ggcnaacagct   60
ctgggggtttg cgtctcgggg tgtgtcggcc gccgctgctg cttgggcctg gtatgtacag  120
atggctgggtt aggattctcg gcaccatttt ccgtttctgc gaccggtcgg tgccccctgc  180
ccgggccctc ctgaagaggc ggcgctcaca cagcactctg ttttctacag tggacactga  240
tnaaatacca gccaaaagac caagattaga ttgctttatt caccaagtga aaaacagtct  300
ctacaatgct gccagcttat ttggattccc attccagctg accacaaagc ccatggtaac  360
ttctgcttgt aatggaacac ggaatgtggc cccttcagga naggtatitt cgaactcttc  420
atcttgtgaa ctgacagggt ctggatcctg gaaacaacat gctnaaactg gggtataaat  480
    
```

ctcctaattgg aataagtgac tatccnaaga tcagagtgac agttncacca 530

<210> 3060

<211> 575

<212> DNA

<213> Homo sapiens

<400> 3060

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 acgccaggag gagtttgagc ataaggagga agttttgcag gaattaaata tgtttcctca 480
 gctggatgac gaggccacga ggaaggctta ttacaaggag ttccgtaagg tgggtgaata 540
 ctctgatgtg attctggaag tcctggatgc cennn 575

<210> 3061

<211> 704

<212> DNA

<213> Homo sapiens

<400> 3061

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 gtaatggatg gaaagatgca accaaacagc ttcccgtagc agtccccttt accatgcagc 120
 aatagcctcc ctgcaacgtg cacaactggc cagagtaaag tggcagcctg gttacaggac 180
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 caagaanaat tttgtctaata ccgcacagaa aagtttgnc cnattttttt cctccttttt 600
 ttggaaaagt tctgccattt aaataagcca tangctatta gaaaaaggag aagctgaaag 660
 ccaanatggt ttccgaagca ggatcacant taaaanggcc acan 704

<210> 3062

<211> 465

<212> DNA

<213> Homo sapiens

<400> 3062

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 cacgtcgtcg tgaggagcgc agtccggact cttcccgcaa cccctccggc tccctttccg 180
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 ccgcccgcac gtcggcgcan gcccanatgc gcgcgatgct ggaccagttg atgggcacct 360
 cccgggacag anatacaact cgtcaacgaa tcnaattcag tgatgacaga gtatgcaana 420
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<210> 3063

<211> 684

<212> DNA

<213> Homo sapiens

<400> 3063

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tgtgggggct gcaactccat acctgcatca tcctggtgat agtcacagtg gccgagttag 180
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cggggacttg gccagcgtgg tatttgggag ccagcgccc ctccttgatt ctgtggccca 540
ncagcagggg gcctggctgc cgcatgttgc tgactttcgg tggcgggtgg atgtacaatc 600
tccaccagtg ccctggctcg ctccctgcan ccgagcgtcc tgatgcactg aaactttcag 660
atgggtccnc atnccgcttt tgaa 684

```

<210> 3064

<211> 693

<212> DNA

<213> Homo sapiens

<400> 3064

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ggaaaaaat gagagacctc tgcctacaaa acctcaaacc agtcactttt gtcaattgct 60
aataccagtg tacttatgat ttaaaaacaa ccaacagaaa acatcccact gactgtatgg 120
cactctatag tcaaaaaagg aaacttcctt attgggactt ttccttctta gtccagttgt 180
gttgacacat atgaacacag acaaagtgt atgcgganga aagcaagtgt tggtcagtag 240
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gtaatacgtg caccaaactg cctcaatcct aggtaacgag ggcaacaggg agcacctgtc 360
tggtattgtt ttaaacctcc atactcaagc tgtctcttcg gcagggangt gaatactctt 420
gaaaggccaa cancaagtgt ttgtgggaca caacacagat aattttttct taagtcggcc 480
aanatgtact tctctgtgtg cacacccatg cacactcatg cacacagata catangtctg 540

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tatggctgta tttgctgttg attcanactt tcacaccatt aatggggaaa agcgtgnca 600
caaaaacana tgctaggaan cttggcttcc tcttctgtt gacctttttt gaaccaacct 660
cttttttatt atattcanaa tatgttttta ant 693

<210> 3065

<211> 516

<212> DNA

<213> Homo sapiens

<400> 3065

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tcgcacggcg gaaccagaa cccttacggt ttctgccgga tgaggcccgg agcctgcccc 180
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tccttccan aaggaatttc cctgaaaaaa aaataanaaa accttttggt gaaatttttt 480
aaaaattccc nccattcct ttaaattntc caaatt 516

<210> 3066

<211> 882

<212> DNA

<213> Homo sapiens

<400> 3066

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caaattatta ttgagccctt actgtgggca aatcattgta ctggataatt gagaaaaata 180

gataattccc ttattcagta aatgtctact gagcacaatc tagtgaatca ttacagtatg 240
gcctcattgt tttgtttgag gtgtgttatt cataacaata ttttacacca ttcgtatcaa 300
tgtaattata gaacacaata tacgatcaag gataagtaat tgtgtgggta tctgccattt 360
aaaagtatcc agtatttgat cacattatta tatataatga aaaaatgatt taatctgtaa 420
taaactgggtt tattgtgcag tgactgtaat atactaaagt tataataaat tgtttactct 480
gcctcaccaa acacatgcta ggatataacc cccaaaataa gtatttaact ttgcattagg 540
tataaagnga nactgggtgc tataattaaa ttattttgag gcagacagaa anctgttattc 600
ctaactgatt taatatgttc tgtaattgaa aaaatgttca ccaaattata ctttttagtg 660
atttacatgt tacattttat aggggacatg ttctgtttnt anccaataaa taacttttat 720
agtatcacaa aatgtttttg gatccctaatt ttcttattaa gaatatgaag tttcttacct 780
ataccttgat tntcccatt tgaatttgic nctttttgcc acataactaa acnttcatt 840
ttaaaattaa ctaaaaatcc tggaattga anttnaacct tt 882

<210> 3067

<211> 482

<212> DNA

<213> Homo sapiens

<400> 3067

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ccggttgctt tctgcagccg catctcgcc agctctcctc gccgtccccg gggcgtgtg 120
cgtctccagt ccgggaccga agccgcctgc cgtagcgggc ggccanattc gcgtccccgc 180
tcagcggccg gaggacatgc gggagagaga atgagccaga gggacacgct ggtgcatctg 240
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atggctggag ccagtgtcaa ccgagtnntg tctcccgac ctcttcattg cctaaagggtg 420
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<210> 3068

<211> 664

<212> DNA

<213> Homo sapiens

<400> 3068

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gaaacaaaat catgttactc cttctcgcca ccgtaactct agcagcgaat ctgctatagt 600
tcccaaaact gtgaagantg gantanttac caagcggctc cccttcctgt gttcaatgaa 660
aggc 664
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<210> 3069

<211> 744

<212> DNA

<213> Homo sapiens

<400> 3069

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gaaaggtttt ttgttggtat tggttggttt ttgagacgg aatttcactt cactcttggt 180
gcccaggctg gagtgcaatg gcgcgatctc ggctcaccac aacccccacc tcccaggttc 240
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 cataatttca gggttagtca gcaacataaa ntccncctaa tgacagcaga naacttatcc 660
 atctgttttt gggccacctt tgaagaaaac tgattttgaa aaatcganan tttctgtcta 720
 ctactaaaaa tcctcnntct gttg 744

<210> 3070

<211> 740

<212> DNA

<213> Homo sapiens

<400> 3070

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 ctctggagat gcctccccag tacaggctgt gtttgcccgg ggaattgctg ccagtggcca 480
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 caccgaacct gccccaagga acaggattgt gtggctgaca tggtagcngc aaataactcc 660
 aggcttgctt ttgtttctgg cggctccaggg ncaaaaattc ncanttattg aaccccattn 720
 ccaagaattt gggaatttcc 740

<210> 3071

<211> 725

<212> DNA

<213> Homo sapiens

<400> 3071

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tgattcagga acaggattga cttactggaa actagaggaa aaggatatgc accactcttt   180
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aagggaacac aagcagttac ctgagaggaa tctcacttct gcttccaacc caaatcatcc   360
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tgttctagag cctagtatgt ctagtccctc tgacatagac tcattttcac aagcaagtta   540
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gggactcttg ggaaaaatcc gatttcctca acgaaagtgt gaacagttcc ncctttccgt   660
ccgtttntnc ccttactagt tatgatatct cccgtccacc ctgttaatta aaaaaacact   720
gtcnt                                           725

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<210> 3072

<211> 633

<212> DNA

<213> Homo sapiens

<400> 3072

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agagcggccg cggctccccc gcacctgcgg ccatggatga ggagcgcgcc ctctacatcg   60
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gggctacttt caaatitgaa tcaacagatg aagataaaaag aaagaaactc tgtgaaggca 180
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<210> 3073

<211> 717

<212> DNA

<213> Homo sapiens

<400> 3073

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 tcctgacagc cgccagcggg agagaggtgg aggccccaag aagccgtgga aatgcgggga 180
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 cgtgcgcaa ggccttccgc ttctcctcag cgctcatccg cccaccancg catccacag 660
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<210> 3074

<211> 508

<212> DNA

<213> Homo sapiens

<400> 3074

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agaccacacca ggtccacgag tacctgcgca gcaagctctg ctctctctat ganaacgact 180
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gtaagcggaa gaaagacgaa atcngtgtgg acagtctgga cttcaacaan aagatcctgc 420
acacagcctg ggcaccccgt ggacaatgtc attgccgtgg ctgccaccan taacttgtac 480
atattccagg acaaaatcng ctananac 508
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<210> 3075

<211> 486

<212> DNA

<213> Homo sapiens

<400> 3075

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gggaagccct tgaaccccct ggcgcccggc acccacgtgc ggtaaccgcg gctcctcgag 180
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gggangccgt ggaanccgca ttcctcccct tgacttgggc gcccaccccc gaaggggcgc 360
gtcccctccc tgctccactg cacgtgggtg tttaaccagg ggatatccag tgcctcaagc 420
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accacgaccc ggganaaaac tgggttgana aagtcttcta acaanccttt tgcacacctg 480
ccatgt 486

<210> 3076

<211> 598

<212> DNA

<213> Homo sapiens

<400> 3076

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gtctgggagg gacnttggag ggtcatcca tatgatgtgc tccctgactg gctaaaggac 540
aacgactatc tgctacattg tcatanaccn cccattccct cctttcgggc ttcttcna 598

<210> 3077

<211> 719

<212> DNA

<213> Homo sapiens

<400> 3077

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ggtaaaaccc tgagtaaaag caagaagttg gagaatatga gatacatctc atctctagta 180

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 aancaaantc ctttaagatt tgaagttcat gatnaaatcc antaaccaag gcaggttgtt 660
 attggtggta aaaataaatt tttaatccat tggaatccat gccnccnacc ccnaatttc 719

<210> 3078

<211> 554

<212> DNA

<213> Homo sapiens

<400> 3078

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 tcncaagacc tcagtgggga cttcaagaaa ccagctctgc cggtgtccca ncggggcgga 540
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<210> 3079

<211> 550

<212> DNA

<213> Homo sapiens

<400> 3079

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cctattgtct gcatcttcna ntaagtttt attcctcaaa aaccaaata ccttcgtgag 540
ganctaaccc 550
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<210> 3080

<211> 747

<212> DNA

<213> Homo sapiens

<400> 3080

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tgatagtgat cctcatggaa tttctcacgt taaatttgat gatctcaatc cagaagctgt 480
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tgaagtcttg ttgaattatg cctacactgc tcagttgaaa gcagataang gaattggtaa 540
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gtatgggaaa cccccgttgg ttgaataaag gttgaatgct tatnttcngg ancattttgt 720
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<210> 3081

<211> 618

<212> DNA

<213> Homo sapiens

<400> 3081

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gctgatcagt gctcttac 618

<210> 3082

<211> 609

<212> DNA

<213> Homo sapiens

<400> 3082

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 agaataacc 609

<210> 3083

<211> 705

<212> DNA

<213> Homo sapiens

<400> 3083

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 attaaaggaa ggttttaaaa tctattttca gattataaaa ggtgtcttta ctggttttca 180
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ctctgtgtgt ttctcccttc accgtgggan tctcaccctc ttgtcattc tccancaccc 660
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<210> 3084

<211> 631

<212> DNA

<213> Homo sapiens

<400> 3084

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<210> 3085

<211> 545

<212> DNA

<213> Homo sapiens

<400> 3085

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tatttgaggc cctacgacgt ggtaggttca ccctcagcct ttgttcttat ttcattcttat 180
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 attgggttaa tactacccta tagggatctt gtgatgcacc acgtaaactgt tgtaagtgt 480
 gaaccactat acaaactat ganactcttc atgttcttga ntggaactgt angttaagaa 540
 nanaa 545

<210> 3086

<211> 654

<212> DNA

<213> Homo sapiens

<400> 3086

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 gcgggggcca ccgcagggcc tgtgggctgg gtcacgtggg tctcgctggg acctggtccc 180
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<210> 3087

<211> 562

<212> DNA

<213> Homo sapiens

<400> 3087

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gctgaaagga cctaaaanaa tcccttagga tgaagctgag tcttaccaag gtagttaatg  180
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atgaagtctt gacagaatat aaagaaggag ttggaaagtt tataggcatg ccagaatcac  420
tcttgtactg ctccctgcac gatccantca gccctgccc ggctggttat gtaacaaaca  480
antctgtgtc tgtgtggant gttgcangac gantggaaat gactgtttcc aagttcatgg  540
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<210> 3088

<211> 587

<212> DNA

<213> Homo sapiens

<400> 3088

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cttataacaa agaaaataaa aatgacgact tcgtctatca gacggcagat gaaaaacatc  180
gtgaacaatt actcagaggc agaaatcaaa gtccgggaag ccacctccaa tgacctgtgg  240
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tcggagatca tgagcatggt gtggaagcgg ctgaatgacc atggcaagaa ctggcggcat  360
gtgttcaagg cgctgacct gctggactac ctcatcaaga caggctccga acgtgtggcc  420
cagcagtgcc gggagaacat cttcgccatc cagaccctga aggacttcca gtacattgac  480

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cgagatggca aggagcaggg catcaatgtg cgtgagaagt caaagcaact ggtggctctc 540
ctcaaggaca aagaacgtn aangctgaaa aggcccangc tctcaaa 587

<210> 3089

<211> 570

<212> DNA

<213> Homo sapiens

<400> 3089

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cctctgttcg ttttactgc aggaccaggc acgaaagta aaacaaaatg aagatTTTT 180
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cacatgtttt aaattcttgg actcnagaan accaaaattt acaggagcta atggcagcat 480
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ccttgttgcn ccantggaaa ctctctgcca 570

<210> 3090

<211> 499

<212> DNA

<213> Homo sapiens

<400> 3090

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ttcgagggca atttgcaaag aattttaag agtattgaaa ttgccaaaaa cagaggagca 180

agatacaggc ttggaccaga gctggaaata tgcggctacg gatgttggga tcattattac 240
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 actcaggaca tcatctgcga cgtggggatg cctgtaatgc accgaaacgt ccgctacaac 360
 tgcagagtga ttttctcaa caggaagatc ctgctcatca naccgaagat ggccttggcc 420
 aatgaangca actaccgcga gctgcgctgg ttcaccccgt ggtcnaagaa tccgcacaca 480
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<210> 3091

<211> 598

<212> DNA

<213> Homo sapiens

<400> 3091

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 cctctacttc aggttattgt tgaaatgacc tgaaatttta aggaagtagc tgaaaatagc 180
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 ttcatgaatg aataattaac ctagtgagag agagagtttc agaaagtgt aatgaaagga 360
 atggtaatgt gaaagaggcc ctgaagcagc anaattttta tcaactggatg attaattaaa 420
 tgaggggatg agggangctt tgctaacctg aatttcaagc ctgaatgagg ttgatgatga 480
 cattaactaa gacagcagac atggaaaagt tatgtgtgga acttanggtt cttggattcc 540
 naancaattg aaagggactt tgtctancct aagccagaag gaatttatta aaatntta 598

<210> 3092

<211> 569

<212> DNA

<213> Homo sapiens

<400> 3092

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 tttgaacaga gacgtgaatg tctaaccttt tgattctatt ctttttatt cagcgagtcc 180
 caccactgtc acccagatga gcttgtccaa cccgaccatg ctgaggactc acagcctctc 240
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 cctggatgag aagagcagaa ccatgagccg ttcaggctca ttccgggatg ggtttgaaga 360
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 agaaaaatgc cagtcagaga ttgcgaagct gcggcgggaa ctggatgcct cccaggagaa 480
 agtttcagct ttgaccaccc agctgacagc aaatgctcac cttgtggctg ccttngaacn 540
 aatcttgggtg acntgacatc aggctccaa 569

<210> 3093

<211> 675

<212> DNA

<213> Homo sapiens

<400> 3093

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 agtatagtta aaaaccattc atattttaag tgattcatgt ataccctgaa gccgttaata 180
 caccaccagtc tctatggtaa catcactaaa tgtgggcata gaaactccac agctgtttac 240
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 gagtgcttct gaagtacagt ttaaaaacac tttttaaaaa gtggantaaa agtgaggcac 420
 attttacaag aacataactc ctattaaaac ggantaacaa ctatgcaaag gtttctatag 480
 canctaagtg antttgtttt ccgggtctgt cttactggc ancttcctgt acatactggt 540
 acttatttgc tgtaaacgtc tgtttcatac ntttgccatg cantgactgt gctcnaaaag 600
 ttaaattccat ggtaaaaaaa cctaagattt tatggtatga aaaactgatc gcgggatttc 660

cgattcataa annnc

675

<210> 3094

<211> 159

<212> DNA

<213> Homo sapiens

<400> 3094

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ggctgcccag ggcccgcgcc gctgcattgg ggcggtccgc gggccctgag aggaanggca	120
tacaggcggg ccgatatann aggggcgggg tctggcgga	159

<210> 3095

<211> 501

<212> DNA

<213> Homo sapiens

<400> 3095

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gcattgagga gaaggcagcg gacaaagagg taaagaaggc gtataggcag aaggccctct	120
cctgccaccc agacaaaaat ccagataatc ccagagcagc tgaactcttc caccagcttt	180
ctcaggcctt ggaggtgctg accgatgctg cagccagggc tgcatatgac aaggtcagga	240
aagccaagaa gcaagcagca gagaggaccc agaaacttga tgagaaaagg aagaaagtga	300
agcttgacct ggaggcccgg gagcggcagg cccaggccca ggagagttag gaggaagagg	360
agagccggag caccaggaca ctagagcaag agatcgaacg cctgagagaa gagggcctcc	420
ggcagctgga ggaacagcag aggctcatcc gggagcagat acgccaggaa ccntnaccaa	480
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<210> 3096

<211> 523

<212> DNA

<213> Homo sapiens

<400> 3096

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cgtacctgag cccccagcat ggcgggccta aagcggcggg caagccaggt gtggccagaa  180
gagcatggtg agcaggaaca tgggctgtac agcctgcacc gcatgtttga catcgtgggc  240
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cacgacctgc tgccctacgt caccctcaan anganacggg ctgtgtgccc tgatcttcta  480
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<210> 3097

<211> 463

<212> DNA

<213> Homo sapiens

<400> 3097

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gaatcagagc gcggctgaag cggccccgc agccaacccc cganggagcg gccggctggc   60
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acccttggt ccagcacccc tgggccgggc accccggtcc ctacaggaag cgtcccgtcg  180
ccgtcgggct cagtgccagg agccggcgct cctttcagac cgctgtttta cgactttgga  240
ccgccttcca tgggctacgt gcaggcgatg aagccacccg gcgccaggg ctcccagagc  300
acctacacgg acctgctgtc agtcatagan gagatgggca aagagatccg gcctacctat  360
gctggcagca agagcgccat ggagcgcctg aaganaggta tcatccatgc ccgggcccta  420
ntcaganagt gcctggcaga nacaganagg aacgcccga cgt                        463
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<210> 3098

<211> 606

<212> DNA

<213> Homo sapiens

<400> 3098

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gcgctcctgc tcttaggaag cctggggaag gaccggtgtg ctagggagat gatcggggaa   60
agcatagtcc cctgtctgtg gcaccagaca ctcccgactg tgcgctgact ctccccgccc  120
agccagcagc cttttccaga gaggctgtgg tccatagcct ctgttcgttt tcaactgcagg  180
accaggcacg aaagttaaaa caaaatgaag attttttctg aatctcataa aacagtgttt  240
gttgtggatc actgccctta tatggcagaa tcttgaggc agcatgtcgg gtttgatatg  300
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aaaaagccgg tgaattttat tgtgagtgac tctggancac atgttttaaa ttcttgact  480
caagaagacc aaaatttaca ggagctaata gcancattan ccgctgttgg gcctcctaata  540
cctcgggcag atccagaatg ctgcantatt ctgcatggcc ttgttgcanc antggaaact  600
ctctgc                                           606
    
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<210> 3099

<211> 563

<212> DNA

<213> Homo sapiens

<400> 3099

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ggcggggggcc atcgcgcagg gcctcatcag agcaggaaaa gtggaagctc agcacatact  120
ggccagtgca ccaacagaca ggaacctatg tcactttcaa gctctggggt gccggaccac  180
gcactccaac caggagggtg tgcaagagct cctgctcgtc atctttgcca ccaagcctca  240
    
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tgtgctgcca gctgtcctgg acagaggtgg ctctgtggt caccactgaa cacatcttgg 300
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 gcctcggggc cgccacgtgg ggagcaccga gaccaacctc ctgcagcatc ttctggatgc 480
 ctgtgggcgg tgtgaggagg tgcctaaatc ctacgtcgac atccacactg gcctcaatgg 540
 cagtggtcgt ngccttccng tnt 563

<210> 3100

<211> 651

<212> DNA

<213> Homo sapiens

<400> 3100

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 ccgatggact caaagaagag aagctcaaca gaggcagaag gatccaagga aagaggcctg 180
 gtccatatct ggcaggcagg atcctttccc ataacaccag agagattgcc aggctgggga 240
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 agcttccata gtggagcagt gacagacaat ggtgtcgcgt acatgtgggg agagaattct 480
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 gctgattctg aagccagccc tttgttagca ntcaggattt tacagttggc gtgtggccaa 600
 gaacacactc tggcnttgtc cntaagcana naaatttggg catgggggta c 651

<210> 3101

<211> 547

<212> DNA

<213> Homo sapiens

<400> 3101

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 tttctcccca gcggcggggg atgggggtag gcggttcctc tgttctttct gcgttccccg 180
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 gtgcggacta gacggtctcc tcgccatttc ctgtcgccct ggggccccgc ggggaaaaag 300
 ggggagtatc aggacagcgg aggggaagtc cgagcttagg tgggtgttag acgccggaag 360
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 atgacgantic caaggagaca ttggggcaga cttgcactca gagccacctg acggacttgg 480
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 gaacact 547

<210> 3102

<211> 599

<212> DNA

<213> Homo sapiens

<400> 3102

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 gctctcttca cttacgaatc tcttaagaaa accaaatgcc gagagtttgt gccttcccga 180
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 gaacaggccc ncnaagcggg ttcccatggc ccccatccng ccccgaaaag aaaacctcc 599

<210> 3103

<211> 612

<212> DNA

<213> Homo sapiens

<400> 3103

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aattaacact aaacaactaa tccaagtttt ttcttaaate caattctgat gtataaattt  180
tgaataatat taggttctta actggaaatt accatttcag ggtttgaaaa ggactaggtg  240
cgtataaaaa gttcagcccc tcatctgtta gactgattat tggtaagact ctttcactta  300
gtcagcaagc tgtgcaaagc aaatactggg atgcatcctc agcaattgag atttgaaatt  360
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ncttctccaa atcctcccat ggcaaaaggc tcngaacaag gcttccagtc acctccanca  600
antattantt ca                                                              612
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<210> 3104

<211> 471

<212> DNA

<213> Homo sapiens

<400> 3104

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caccganaaa gagtgggctt tgctgggtcc ttgtcanaan aatctctaca aagatgtgat  180
gcaggaaacc atcaggaacc tggatttgtt aggaatgaaa tggaaagacc agaacattga  240
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agatcaatat agatatccca ggaaaaatct aagatgtcgt atgttagaga gatttgttga 300
 aagtaaagat ggaactcaat gtggagaaac atctanccag attcaagata gtattgtgac 360
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<210> 3105

<211> 468

<212> DNA

<213> Homo sapiens

<400> 3105

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 ggagattgca aggtcctctt atgcagatat gctacatgac aaagacagaa atgttaaata 420
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<210> 3106

<211> 530

<212> DNA

<213> Homo sapiens

<400> 3106

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 anggatgatg attattcccc accttctaag agacaaagac caacgagcca ccacagccac 180

cagtcccaga acccgccaat gctggggaat ggaaaatgag ggagttcaac tctggccctc 240
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gcctttcttc catttgtggt tcttgcgaag tggaatttaa atgacatctt atcnagatgg 480
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<210> 3107

<211> 621

<212> DNA

<213> Homo sapiens

<400> 3107

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tctgaccatc ctcatgaga aaggaaagtg agtccagaga agttgatgct tcctacctgt 120
tggagcggcc cagcagtgtg agcgtggttg ttactgcccc atccgccatg tccttcagtg 180
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ccaacaatga gttgttaaaa cgtctccagg aagaagtggg tgacctgagg caagggaag 480
tgtccatccc tgatgaaaat ggggaaagcc gggcacatag ttccccacct gaggacctgg 540
gcctctcaag gaaatccggg gaacctttta ggctctgtct gccgtggaaa aagaatgtga 600
cancgtgggc ancggcgtnc a 621

<210> 3108

<211> 512

<212> DNA

<213> Homo sapiens

<400> 3108

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 ccgccagccc ctccctcctt tcccgcaggt tagcctggca aggaagataa agacatttgc 180
 aaccaagatg gtaatcacta gtgaaaatga tgaagacaga ggaggtcaag aaaaagaaag 240
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 gatcatattt gtctacatat acaccaccct gtgaatggcc cagagcgicc tcanaggcct 360
 cagaatggcc aaagacggaa gtcctgcgtg tcggcgcatc actgaccaga ccctgcgana 420
 acaagcaggc ttgaccgca catnccaccc aatcaaagtc accttcnaac ttacaaaag 480
 gtcncacaaa tanaccgatc ctgctgcagg ga 512

<210> 3109

<211> 662

<212> DNA

<213> Homo sapiens

<400> 3109

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 tgagactcca cagaaaagaa aagtttcttg agagcagaac ttctgtcctt ccttcccagt 180
 tcggtactat aagaagacat gcacacaaag atgtttgtta tgattattga agtgttaaat 240
 ggaagaaaaa tgttacccaa gtcttctcca aaaagaatgg tagatatttc cttgaaatgc 300
 ctaaccatt tctggatgag actcatcaat atccccttca ctccactctc tgccaactca 360
 gatataattt ccattgggca ccttcacagt aatgccagga ttggggcaga natcctgaaa 420
 gagcttctta taagatggca aatgtgcctg gcaagagcat ttgtattttg tcaggtggag 480
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 gaattatgct attagtttaa taatatctga ngcagtaaaa tantacctga agaatggtgc 600
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na

662

<210> 3110

<211> 528

<212> DNA

<213> Homo sapiens

<400> 3110

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<210> 3111

<211> 486

<212> DNA

<213> Homo sapiens

<400> 3111

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agtggggatg ccaagaccga cctcgggcac atcctggact tcacctgtcg ccttaagtnc 360
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<210> 3112

<211> 501

<212> DNA

<213> Homo sapiens

<400> 3112

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 tgtgttctcc accatagctt tggactctct tgttcttgaa aacttaagta cccanatttt 420
 gatcttggct cctacaanan aaattgctgt acagatacat tctgttatta cagccattgg 480
 aataaaaatg gaangcttan a 501

<210> 3113

<211> 544

<212> DNA

<213> Homo sapiens

<400> 3113

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 caccacacca tcttccgcca ggtgtgcctg gcctcccggg catccaccca ccgggtgtga 480
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 aaca 544

<210> 3114

<211> 526

<212> DNA

<213> Homo sapiens

<400> 3114

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<210> 3115

<211> 776

<212> DNA

<213> Homo sapiens

<400> 3115

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agccgcgtaa cagcctttct agatgattta agccagaagt taaaaccctt ggggtgaagca	180
gaacgagagt ttattttgaa tttgaagaaa aaggaatgca aagacagggg ttttgaatat	240
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tattccatag accaagagtt cctcaaggaa tacttcccaa ttgaggtggt cactgaaggc	360
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tggtgaactt ctcccagccn gtggcaggtc ctccctctcc tcctgagacc nacaaaactg	660
attttgccn aattagcgga acaatgtnga aactgacttt gtttnaagt ccctccccaa	720
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<210> 3116

<211> 503

<212> DNA

<213> Homo sapiens

<400> 3116

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tctagctcag gctttaggat cagagagcan canattcaaa tcctgacggt ttttgtaaag	180
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cctctgcctg ctggtcatca ncatctcgtg ggcgccccgc ccgcngcccc ggggccccggc 480
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<210> 3117

<211> 440

<212> DNA

<213> Homo sapiens

<400> 3117

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<210> 3118

<211> 261

<212> DNA

<213> Homo sapiens

<400> 3118

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ggcgggtgctg gtggcgggcg cggcggtatgc caccgccgcg gtcccagcgg caacagcagc 180
ggcgggagga gcctccggga aatggatgaa aagacgtgc tgatccann gttgaaggtt 240
cataaaagcc tctgggatta n 261

<210> 3119

<211> 609

<212> DNA

<213> Homo sapiens

<400> 3119

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ggcgcttact ctgtgcgctt gcttcccca ccctgcaccg gccatgcgcc cggccttggc   180
ggtgggcctg gtgttcgcan gctgctgcag taacgtgatc ttcctagagc tcctggcccc   240
gaagcatcca ggatgtggga acattgtgac attgcacaa tttttattta ttgctgtgga   300
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caacattgcc atgcccctgc atatgatatt tanatccgt tctctaattg ccaacatgat   480
tctaggaatt atcattttga anaaaaata cagtatatc aaatatacct ccattgccct   540
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<210> 3120

<211> 564

<212> DNA

<213> Homo sapiens

<400> 3120

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accgcgagac gcgcgccctc gccgacagcc acttccgagg cctgggggct gatgtccccg   180
gcgtcggcca ggctccgggc cgggtagcct tcgtctcgga gccgggcgcc ttctcctacg   240

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ccgactttgt gcggggcttc ttgctgcccc acctgccctg cgtgttttcc agcgccttca 300
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 acatacaggc gggctactcc tctcccagg gctgtctcta cctcaaagac tggcacttgt 540
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<210> 3121

<211> 632

<212> DNA

<213> Homo sapiens

<400> 3121

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 gcgagctttt atgaggacgg aggggatgaa gacattgtga ccatttcgca ggcaaccccc 180
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 ggattcagcc tggataatgg agaactcana agctaccaag acccatccaa tgcccagttt 540
 ctggagtcta tccgcagaag ggangtgcca ncanacttcc gaagctanct cacggtggac 600
 aggtgaactt ggatatggan gaccatccgg ac 632

<210> 3122

<211> 640

<212> DNA

<213> Homo sapiens

<400> 3122

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<210> 3123

<211> 670

<212> DNA

<213> Homo sapiens

<400> 3123

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 aatgtctttc acatgaaatg ggcctgagtc actctaagac tcaccttagg gtgatcaaag 180
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aaaagaaaat gcaaactcca atgtntactt ctganaacag acaatntttg catnagatgc 600
aagtgttgga aatgatccgt aaaagacaag aaggccaaat gganttaaag aaaagtcttc 660
atgganaagc 670

<210> 3124

<211> 833

<212> DNA

<213> Homo sapiens

<400> 3124

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<210> 3125

<211> 780

<212> DNA

<213> Homo sapiens

<400> 3125

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<210> 3126

<211> 803

<212> DNA

<213> Homo sapiens

<400> 3126

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<210> 3127

<211> 799

<212> DNA

<213> Homo sapiens

<400> 3127

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<210> 3128

<211> 658

<212> DNA

<213> Homo sapiens

<400> 3128

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ttctcaagcg ttttcaagat ctagcatgtg gattttaaaa gatttgcctt cattaacaag 240
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cgcatgttca actttttatt gtggtcttat aattaaatgt aaaattgaaa attcatttgc 600
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<210> 3129

<211> 781

<212> DNA

<213> Homo sapiens

<400> 3129

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<210> 3130

<211> 744

<212> DNA

<213> Homo sapiens

<400> 3130

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<210> 3131

<211> 693

<212> DNA

<213> Homo sapiens

<400> 3131

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<210> 3132

<211> 775

<212> DNA

<213> Homo sapiens

<400> 3132

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<210> 3133

<211> 805

<212> DNA

<213> Homo sapiens

<400> 3133

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<210> 3134

<211> 624

<212> DNA

<213> Homo sapiens

<400> 3134

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tgtctctgag accagcacag actacagttt taataaaaac agctaaggctc tatcttgccc 180
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<210> 3135

<211> 423

<212> DNA

<213> Homo sapiens

<400> 3135

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accgcgtggg acggcgtgaa cgtggtgtcg gagggatgtc agccttctct gaggcggcgc 180
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 ggaaagccaa accaaacagg aagcttactt ttctctacct agccgatgat gtcatacggg 360
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<210> 3136

<211> 484

<212> DNA

<213> Homo sapiens

<400> 3136

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<210> 3137

<211> 774

<212> DNA

<213> Homo sapiens

<400> 3137

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<210> 3138

<211> 890

<212> DNA

<213> Homo sapiens

<400> 3138

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 aagctcatcg agcgggtccc ccgcaccctg ccacgtcca tcacgtacgt gagcatcatc 480
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<210> 3139

<211> 785

<212> DNA

<213> Homo sapiens

<400> 3139

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<210> 3140

<211> 809

<212> DNA

<213> Homo sapiens

<400> 3140

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<210> 3141

<211> 787

<212> DNA

<213> Homo sapiens

<400> 3141

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 aaaatggncg aaaggcgtcc taaagcatat tganggaaca ctttgacagg accaaagggt 720
 caagtaactt ggctttgctt aacataaant tttnggtatt aaaacacgaa cctnggattt 780
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<210> 3142

<211> 281

<212> DNA

<213> Homo sapiens

<400> 3142

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 ccagcaccca ggtgaaatat acagccttgt tgctcacaca aagcctgttt ggtggtttct 240
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<210> 3143

<211> 784

<212> DNA

<213> Homo sapiens

<400> 3143

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<210> 3144

<211> 853

<212> DNA

<213> Homo sapiens

<400> 3144

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<210> 3145

<211> 871

<212> DNA

<213> Homo sapiens

<400> 3145

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871

<210> 3146

<211> 633

<212> DNA

<213> Homo sapiens

<400> 3146

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<210> 3147

<211> 651

<212> DNA

<213> Homo sapiens

<400> 3147

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<210> 3148

<211> 753

<212> DNA

<213> Homo sapiens

<400> 3148

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<210> 3149

<211> 759

<212> DNA

<213> Homo sapiens

<400> 3149

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gcctggggca caaggagat gagccaggaa gctctgccac caaacannga gggcctggtg 660
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<210> 3150

<211> 708

<212> DNA

<213> Homo sapiens

<400> 3150

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ctaccagttg ctgtcggcgc tacagagcct ggtgaaggag ttgccagct ctttccagca 180

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gcgcctgtcc tacaccacgc tcagcgacct ggccctggcg cttctcgacg gcaccgtgtt 240
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 catcctggag ctggaccgga aggtggctga ccagcagagc acactggaga aggcgggggt 540
 ggctggcttc tacgtgacca ccaaccaca ggagctgatg ctgcanattg aacctgctgg 600
 nactcatccg aaagcttcaa caaaggggct gccggggcaa ggaatgcanc cctgggactg 660
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<210> 3151

<211> 844

<212> DNA

<213> Homo sapiens

<400> 3151

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 tacgtgtcga gaactttctc gagccactgc cgaattggaa cgagcatgga gagaatatga 180
 taagttagaa tacgatgtaa ctgttaccag gaaccagatg caagagcagc tggatcacct 240
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 ttcaaattta agggataatc catttaggac tactcagact cnaaaggagg gatgataagg 720
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<210> 3152

<211> 635

<212> DNA

<213> Homo sapiens

<400> 3152

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 agccaccagc tgtgtcaaat agttctggac ttttgggagt gctaccccca aatataccta 180
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 anaaaggata ccacttggga atgataacat tcaacaggaa ggagatagag attaccggtt 600
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<210> 3153

<211> 678

<212> DNA

<213> Homo sapiens

<400> 3153

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agagctacct tcatttctat cactttccca agctgtcatc cccgccggct gtcattgggaa 180
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 cagatggctt tttgatagct tctttatctt tcgatctcaa gctcttgcaa aggggagggtt 480
 ggtgctcatt gcaagatcag cgataagggt ttctttgtag gtcgggtggct ttcctgggtg 540
 agtacatttc aacatantat tggttttaga acctgtgtgc tgccagnina ctttgcaaca 600
 ctgttgaaga ctanccaccc tttgngacct accctccttg ggaaaatggc ggaggatctc 660
 angggtatat ccccttac 678

<210> 3154

<211> 744

<212> DNA

<213> Homo sapiens

<400> 3154

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 gcctctcctc tggttgcccc gctggctgca ggctgtcatt taaccttccg cccagcatgc 180
 ttttgagtgt gcagaagtgc tgcatgccct ctcttttgaa aacctgttga gcaaatgcct 240
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 gnaagcaaca agggatgcac ttgaccccc caaaaccaat acatacatcc ttcaatttat 660
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744

<210> 3155

<211> 590

<212> DNA

<213> Homo sapiens

<400> 3155

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tctgccactc agccgcggcc ccgtgccagc caaaccacc gtgctcttcg agaagatggg 180
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anccgagagc aaagagagcg tgggctcccg ggacagctcn aagagagagg gcctcctggc 480
accacccta gacctggcca ggagcgccct ggggtgggcc ccaaggagcc aagcacnggc 540
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<210> 3156

<211> 750

<212> DNA

<213> Homo sapiens

<400> 3156

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aaatgtcaaa aagaccatct tatgccccac ctcccacccc agtcctgca acacaaatgc 180
ccagcacacc agggtttgtg ggatacaatc catacagtca tctgcctac aacaactaca 240
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ggctgggagg gaacccgggc accaacagcc gggtcacggc atcctctggt atcacgattc 300
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 tctgggacca agtaaaggct tccaaccctg acctaaagtt gtgggagatt ggcaagatta 420
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 gacaatctcg catggagaaa aggagaaccg tacatgagca ttcaacctgc igaaagattc 660
 aagatgatta tgatgatggc ttttcaattg aagcatacaa gccaccggcc ccgttttcca 720
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<210> 3157

<211> 694

<212> DNA

<213> Homo sapiens

<400> 3157

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 tctcaataaa atgctaactt gccagtgatt aaatgagtgcc ccttccaaag ttctctttta 180
 ccagaaatac agtggattga gactagaaca ttgctttcat ttgggtttgt aggttttaaaa 240
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 cccaccttat tgaacagatt tattttcctt atacatactt gtgttgctct tggttacgtg 480
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 tttatgtaat ttttaaggggc cttttcagtt catccttttg caaaaccatc accacttaat 600
 tatacttttg catcagtcta gaagactgca tattggnaaa gcaangtaaa tctannatga 660
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<210> 3158

<211> 908

<212> DNA

<213> Homo sapiens

<400> 3158

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ctaagatgcc aggacatcct ggaagctggg aaaagatgga gtttcactct tgttgcccag  180
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gttacagaga atgtcntaac agggcccagc acacaaagtg aagattgggg tttgtcctat  660
gcacactnca ccaaaccitt tacagttgtc aaccctggac caattgacaa gagtctgcta  720
agtggaaggg tcctgaaatt acaatgtgga acacaagtcc cgcaantttg ggaatttgtg  780
acctggtcaa natggtgaaa catcctgggc taacaagttt gggaatgggg gactccattt  840
tcctaaatcc aagcttcaat agggaaaggn tgaaaaantn cncctaacct gggacncaaa  900
tttgggtga                                     908
    
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<210> 3159

<211> 187

<212> DNA

<213> Homo sapiens

<400> 3159

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 ctccagtccc ggagcgcggc ggggaggaag gaagcggcgg cggcgggtggc cgaggcggng 120
 aggcggctgg gccggggcct gagctgccgc ggcgccgct cctcggtag caccggcnt 180
 ggngcgc 187

<210> 3160

<211> 602

<212> DNA

<213> Homo sapiens

<400> 3160

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 gtttcttccc tctcaatgcc cctagcccct tgggaaccag aggccccaga gacagtgtgg 180
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 gaagcatgcc cggaggctca gcatgaagca ctctgtaccc agctctacct cctcattgtc 540
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<210> 3161

<211> 300

<212> DNA

<213> Homo sapiens

<400> 3161

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<210> 3162

<211> 756

<212> DNA

<213> Homo sapiens

<400> 3162

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 aaggcacttg ccgacgctaa agctcttggt gaaagattaa gagatcatga cgatgcagca 420
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 acgtacatct ctggaagaac atcagtcggg ctggnactt ataagagca agtaccagag 660
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<210> 3163

<211> 155

<212> DNA

<213> Homo sapiens

<400> 3163

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ttcctaccag tggccaatgg gnttaagnag aagna 155
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<210> 3164

<211> 648

<212> DNA

<213> Homo sapiens

<400> 3164

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gatttcattc ccagaggaaa aagagaacct ggtatggcct tagaatngg naagnccaag 600
tgaagnccag ggggaagggt tctgaggac ttcaagnac aggaggat 648
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<210> 3165

<211> 741

<212> DNA

<213> Homo sapiens

<400> 3165

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aactgatggc attcacttca cacagtcgtc tatgttatcc agagattttt atttcatttt  180
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gatatctcct ccttcctggt cacattcaaa ccttcccaga gtacaaaggg gtatgtagaa  480
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nagagggttc aagaaaatcc tttggaaata aaaagttaaa tggttgcaat tcaaggggna  660
atttcaagtc ctcaaggctt gattaactta cttttttccc tttggccttt gggctggatt  720
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<210> 3166

<211> 763

<212> DNA

<213> Homo sapiens

<400> 3166

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ttccttcttc ttctctcttt aaaactatct tagatgtaga atcctgggtg agggttttat  180
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ttatataaaa atttttatca acactaaact tttaaagttt acaagttttt ttttctttt  420

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 tttcagggtt caatctgtgc anggtatatg caaggttaaa tccaccaagg cntaagaact 600
 tccacaaaaa tatttcaagg ganaagggcc tgcaatttag acgggaacaa gaaatgggtt 660
 tttccctca ctgggtcccg aatgctcaa nacttgggnt ttaaaatttt tgctaacctt 720
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<210> 3167

<211> 727

<212> DNA

<213> Homo sapiens

<400> 3167

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 gattctattc ttaccagtca ctgcacgagt gggttcaggga cacggatgcg gagtttgttg 180
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 acaggagaga tttctttttt tgcatccaag tttcaaagg gaaaacaaag attttttgaa 660
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<210> 3168

<211> 712

<212> DNA

<213> Homo sapiens

<400> 3168

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aagccatttc agtcaggttc tacaccgttg catctcactc acagattcat gcaagcttca  180
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gaggacttgg taatacgtgg nctcctanat gtnatacaag agagcactgc aaagggaaaa  660
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<210> 3169

<211> 522

<212> DNA

<213> Homo sapiens

<400> 3169

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aggcccttct ggaacacagc agggcctaca acgaggggcc ttgcatgg gctgtgagga  300
tgggggtggt gggaagaatt ggccacgtta gagaccccat gccacccac catggtgagt  360

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gctctgtgcc tcctgctcac ctgtggtgag ctgggcgagc tgggcgagct gggcgagctg 420
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<210> 3170

<211> 641

<212> DNA

<213> Homo sapiens

<400> 3170

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 tacacagagc acacttctct gctgatgctg ctgtcgtggt ccatgcagct ctggatgaca 180
 gtgacttctt caccagctat tacactttgg ggaatatata tgcaatgctt ggggaatata 240
 accactcagt gctctgttat gaccatgctt tgcaggccag acctgggttt gagcaagcta 300
 taaagaggaa gcatgctgtc ctatgtcagc aaaaactgga gcagaaattg gaggctcagc 360
 atagatctct ccagcgaaca ctgaatgagt taaaagagta tcaaaagcag catgaccact 420
 acctgagaca gcaggaaatc ctagaanngc ataaactgat tcaggaggag canatcttaa 480
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<210> 3171

<211> 747

<212> DNA

<213> Homo sapiens

<400> 3171

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 cctgctcttc ccacagtttt caccatcttg gctaacagcc aatgaccag ggctaaaact 240
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 cagttaattc ttcacattgc tgccatagtt ttacttttaa tatgccagat cacatgactg 480
 cttaaaacgt acgatagctt ttcattcttc ttgggagtaa aagccaaagc cttatcatgg 540
 cttgtaaaat tctgtgtctt ctggcctgca gttaacacct ttgactctac atcctatttc 600
 tctctaatat tctcnaaac atgccaagca ngcttctact tgggggacct ttggcagttg 660
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<210> 3172

<211> 600

<212> DNA

<213> Homo sapiens

<400> 3172

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 agaaattttc ctgcattgct tgtgaggatc ttacataaat caaaactgcg atactatgga 180
 aaacctgata aaaagatgat tgaaccatat cagacctttt tggaagttgc tgacagttca 240
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 cagcctgtcc ccgtggatcc acagatcaaa ctaatttcta caatggaaat ctgcctgaat 420
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 agactgccaa agctaaatca ccgatttacc ccnaggctcag aaactggatg atatgccnaa 540
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<210> 3173

<211> 686

<212> DNA

<213> Homo sapiens

<400> 3173

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ggagctttca gtggttggtat ttcattccctt actggtctca accaaaatat tcctgttgga   180
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ttcaaaaaag tacatggact atatcgaca acaggtgcta gttttgagaa ggccaacag   300
gagtttgcaa caggtgtgat gtccaacaaa actgtccaga ccgcagctgc aaatgcagct   360
tcaactgcag catctagtgc agctcagaat gctttcaagg gtaaccagat ttaagaatct   420
tcaaacaata cactgttacc ttttgactgt acctttttct ccagttactg tattctacaa   480
atatttttat gttcaaaaca cacagtacag acagcatgga tatttctgtt tcacttgtgc   540
atgggctaaa accaagaaaa cttccttgtc ttattacttt acctaataat tcttaatat   600
tcagtgcacc ctgcanaaaa aatattacat ggccaaataa atattccccc atatttttgg   660
ggggangana ttcnntggaa ttattc                                     686

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<210> 3174

<211> 548

<212> DNA

<213> Homo sapiens

<400> 3174

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aactagccca gccgcgcgga agcgcctggg gagaggagaa ngagccgacc tgccgagatg   60
gaggcgaccg gcacctgggc gctgctgctg gcgctggcgc tgctcctgct gctgacgctg   120
gcgctgtccg ggaccagggc ccgaggccac ctgccccccg ggcccacgcc gctaccactg   180

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ctgggaaacc tcctgcagct acggcccggg ggcgtgtatt cagggctcat gcggctgant 240
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 ggaaccgtan cgatgctgga agggactttt gatggccatg gggttttctt ctccaacggg 420
 gaacggtgga agcagctgaa gaantttacc atgcttgctc tgcgggacct gggcatgggg 480
 aagcganaag cnaagaactg atccangcgg aagcccngtg tctggtggaa acattccagg 540
 ggacanaa 548

<210> 3175

<211> 671

<212> DNA

<213> Homo sapiens

<400> 3175

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 aactaagaaa agggaaacat tttagttttg gaagtcagaa tgccaaggag aaggaaaaat 360
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 gctantcgtg aggagccaac cactactcta ctttccatgg gtgagacaaa agttgatcag 480
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<210> 3176

<211> 250

<212> DNA

<213> Homo sapiens

<400> 3176

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cagcctccca agtagctggg attacagaca aaaggatgcc acggagaaag aaaaaagtta 180
aagaagtctc cgaatctcgg aaccaggaga acaaggatgt ggaaactacc agttctgtca 240
ntgtgnanaag 250
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<210> 3177

<211> 740

<212> DNA

<213> Homo sapiens

<400> 3177

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tattagaata tcagctaggg agatgggtgc cagctcttcg tgaaccaagg gatttatatg 420
gtgtctcttc ttctgggtcca ttgagcccaa cagggtggcc atacattgt gaagtcacg 480
atgaaaaagt ccagcatatt gatggagtct catgctggag tgagtctcac caggctggag 540
cgcagtgggtg cgatctcggc tcaactgcaac ctccacctcc caggttcaag cgattcgcct 600
gcttcagcct cctgagtagc agagactaca ggcgcggtgcc accacgcca gntaatttgg 660
natttttagt aaaaacgggg tttcaccatg ttggccagga tggctctccg tcttgacctc 720
gtgatccgnc tgcctcactt 740
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<210> 3178

<211> 638

<212> DNA

<213> Homo sapiens

<400> 3178

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acaccgcgcc ctgccacaga ggctgagctg ctcacctgtc acagtgctga gtacgtgggt  180
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ctatatgtgt ccctgcaccg ntatgatcat ggcaccttct tcccatggg gggtgagggt  600
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<210> 3179

<211> 730

<212> DNA

<213> Homo sapiens

<400> 3179

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cacacaggca ggtcgggcag gcgggtcgca ggttgtaa at ccatgtggcg ggggctttgg   60
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gcaccagccc ccggctccgg cgccaccatc ttcgcgctaa gctctggcca aggccgctgc  180
ggcatcgcat tgatccggac cagcggcccc gccagcggcc acgccctccg aattctcacc  240

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gcaccccgag acctgcccct tgctcgccac gccagcctgc gcctgctcag cgatccccgc 300
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 ctctgccgtg gctggggccc agaccctcac caaagctttt ggcccacgtg gaggcctata 660
 tcgatttcgg cgaaggatga caacctggga ngganggggt ncctggagca aggccccgaca 720
 tcgaaagtac 730

<210> 3180

<211> 819

<212> DNA

<213> Homo sapiens

<400> 3180

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gttggctgga tatttacaga cctcgtctca naagatccc

819

<210> 3181

<211> 703

<212> DNA

<213> Homo sapiens

<400> 3181

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agcatcccaa agaatttctt gtattcctaa aacccatatt tctaataagt atgggaataa 60
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caagtgtaat gagtgtggca agacctttgt tcaaaattca tctcttgtaa tgcataaggt 660
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<210> 3182

<211> 798

<212> DNA

<213> Homo sapiens

<400> 3182

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aacttactgc atatgcaact caactcactg cgtatgcaac tcaactcgca ctgcgtatgc 180
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<210> 3183

<211> 825

<212> DNA

<213> Homo sapiens

<400> 3183

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 caagcattat tagaaaatgg aatcattcac catgttactg ataaacatca attcaaacca 720
 gaacagatgt tatatagatt tcctatgatg atggaacatt ttatccaaga aatgagatgc 780
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<210> 3184

<211> 831

<212> DNA

<213> Homo sapiens

<400> 3184

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 atttagtnag aagaattcca gtcttataaa ggttgcttta gacactcttg ctgcattgnt 780
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<210> 3185

<211> 824

<212> DNA

<213> Homo sapiens

<400> 3185

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tcatgagtc ttattcaagc tcctggcctc aaatgccage tgtgctgaga ccccttatt 780
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<210> 3186

<211> 777

<212> DNA

<213> Homo sapiens

<400> 3186

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<210> 3187

<211> 854

<212> DNA

<213> Homo sapiens

<400> 3187

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854

<210> 3188

<211> 829

<212> DNA

<213> Homo sapiens

<400> 3188

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tggtcattgc aagatcatta tagaatgtat tcaccataa tataccaagc cctctgtgag 180
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atgtcactgc aaaatcaatt ggaggagtca ctaaagagcc aggaattact gcagagtaaa 720
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<210> 3189

<211> 837

<212> DNA

<213> Homo sapiens

<400> 3189

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 ttctgcaacc caatttttca gccccantg ggatgatgtg gtctggaact gaaagtgatg 780
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<210> 3190

<211> 853

<212> DNA

<213> Homo sapiens

<400> 3190

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 cttagcatct gacagcaggt ctaaaggaga acccaggat tctgggaccc tccagagcca 240
 ggaggccaag gctgtgaaaa agaccagtct ctttgaggaa gacaaagaag atgatctttt 300
 tgccattgcc aaggacagcc aaaagaagac ccagagagtg tcactcctct ttgaagacga 360
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 aaacattatc cangcttcac agaaagaagt aggaaanggc tgcgatcctt gatgcccacc 780
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<210> 3191

<211> 828

<212> DNA

<213> Homo sapiens

<400> 3191

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 gagaaactga agccaaagta caggacatct gcttcagcca tgactgtcgc ttgggttgtg 720
 gtcagtactc ttcgggggtac ttnccacgtt ttccccatca acccttatgg tgnncaacct 780
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<210> 3192

<211> 763

<212> DNA

<213> Homo sapiens

<400> 3192

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tcactgttaa ctgaatttat tgttttagac ttttttcttg catttatgta aacctgactt  180
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agccttggtg acatggcaaa acccttctct actgagaata caaaaattag ccggtcatga  660
tggcggccac ctgtggtccc agctgctcag gaggtcagag caggaggatg gcttgagccc  720
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<210> 3193

<211> 841

<212> DNA

<213> Homo sapiens

<400> 3193

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ggatttggca cattgacctg ctggatccag gctgcgctga cactcaaggt caacatcaag  120
aatgaaggac ggagagttag aattccacgg gttattctgt cggcatctat cactctctgt  180

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gtggctctct acttcatcct catggcccaa agcatccaca tgtatgcagc cagggtccag 240
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 cgagtagggc aggccaaatg ttccttgga gtaatgcaa cttccgacgt tgccttcagg 780
 tcccaanggc ttggaaccag ctctgagga agttctgaat ctgcactaat attcttgagt 840
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<210> 3194

<211> 848

<212> DNA

<213> Homo sapiens

<400> 3194

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 tgctgccagg cagctcaaca ggcaataatc aaagcactat cactctatca gttgcttctc 180
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 agcactctga tatcaatgac ttagagaaat ctgtttggga attagnaagg aatgccacag 780
 gacacatata gncagcagct acatagccag atccaggaat cttctttaaa tcaaattcaa 840
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<210> 3195

<211> 653

<212> DNA

<213> Homo sapiens

<400> 3195

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 ggaaaggggc catgattggc tgctttgtgg ttttatattg gttctttcca ttctccgcca 180
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 ctgttgggaa atgtgactct tggaggaagg tggggaggga gtggccttgc cagccctgtg 480
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<210> 3196

<211> 836

<212> DNA

<213> Homo sapiens

<400> 3196

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attcctcctg ctccagcta atgaaatttc aaaacttctg tgcagtgatg acattaatgt	240
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tggcaaaatc tggactgtga tgccttccat gtcaacacat nggcacggct tagtgtacca	780
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<210> 3197

<211> 789

<212> DNA

<213> Homo sapiens

<400> 3197

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agtgtgtgtg tgtgttacat atagataaca tatgtgttat atataggtat tacacataac	180
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<210> 3198

<211> 803

<212> DNA

<213> Homo sapiens

<400> 3198

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<210> 3199

<211> 770

<212> DNA

<213> Homo sapiens

<400> 3199

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<210> 3200

<211> 757

<212> DNA

<213> Homo sapiens

<400> 3200

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cataaacatt accaaataca tcgcattaga catttttaca tgagaaaagt caaatttact   180

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caacagaatt accatgatag actttcaciaa attctaacag atttcccaa attggatgat 240
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 ctacgttggc aggttgtaga cacttctggg atcctggacc accctntgga ggataggaac 720
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<210> 3201

<211> 768

<212> DNA

<213> Homo sapiens

<400> 3201

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 tctggggccc cccaatgac tgtccgggag aaaaccgct agaaaaattc cgtcagcttc 720

tnttcagcca naacactgac ttagatgaac tgaggaagtg tancttgg

768

<210> 3202

<211> 815

<212> DNA

<213> Homo sapiens

<400> 3202

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ncacaggctg caagcgccca aagccaatgg gaatcacctg gntcaagatc agcctggaga	720
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gtcaccccttc anggtgagca ccaacaacct tteng	815

<210> 3203

<211> 512

<212> DNA

<213> Homo sapiens

<400> 3203

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<210> 3204

<211> 777

<212> DNA

<213> Homo sapiens

<400> 3204

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<210> 3205

<211> 807

<212> DNA

<213> Homo sapiens

<400> 3205

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<210> 3206

<211> 856

<212> DNA

<213> Homo sapiens

<400> 3206

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<210> 3207

<211> 857

<212> DNA

<213> Homo sapiens

<400> 3207

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<210> 3208

<211> 860

<212> DNA

<213> Homo sapiens

<400> 3208

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<210> 3209

<211> 863

<212> DNA

<213> Homo sapiens

<400> 3209

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<210> 3210

<211> 782

<212> DNA

<213> Homo sapiens

<400> 3210

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<210> 3211

<211> 851

<212> DNA

<213> Homo sapiens

<400> 3211

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<210> 3212

<211> 847

<212> DNA

<213> Homo sapiens

<400> 3212

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<210> 3213

<211> 838

<212> DNA

<213> Homo sapiens

<400> 3213

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<210> 3214

<211> 852

<212> DNA

<213> Homo sapiens

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<210> 3215

<211> 836

<212> DNA

<213> Homo sapiens

<400> 3215

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<210> 3216

<211> 839

<212> DNA

<213> Homo sapiens

<400> 3216

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 ggagaaacct gatgattcat tncacacact atgatctgcc ttctagtaag gtcaatgaaa 780
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<210> 3217

<211> 831

<212> DNA

<213> Homo sapiens

<400> 3217

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<210> 3218

<211> 786

<212> DNA

<213> Homo sapiens

<400> 3218

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<210> 3219

<211> 707

<212> DNA

<213> Homo sapiens

<400> 3219

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gatccctaca acgacctcgt taaggaggag ctgaacatca tccaaggggc gctggagctc 600
cgcaccaaga cgggtgganga cgtgatgacc ccactccggg actgcttcat gatcaccggc 660

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707

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<211> 706

<212> DNA

<213> Homo sapiens

<400> 3220

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 ccagtgtaat aagccctggg aaggtcaact gggagaatgt gcgcagtggc ttaagtggac 660
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<210> 3221

<211> 744

<212> DNA

<213> Homo sapiens

<400> 3221

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<210> 3222

<211> 804

<212> DNA

<213> Homo sapiens

<400> 3222

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<210> 3223

<211> 704

<212> DNA

<213> Homo sapiens

<400> 3223

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 tcggggactt ggccancgtg gtatttggga gccagcggcc cttcttgatt ctgtggccca 660
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<210> 3224

<211> 774

<212> DNA

<213> Homo sapiens

<400> 3224

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<210> 3225

<211> 644

<212> DNA

<213> Homo sapiens

<400> 3225

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<210> 3226

<211> 645

<212> DNA

<213> Homo sapiens

<400> 3226

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<210> 3227

<211> 865

<212> DNA

<213> Homo sapiens

<400> 3227

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gaccacacgc acagtcattg atagctccct gcagcctggc atgtcaagat gctctaggcc 180
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<210> 3228

<211> 859

<212> DNA

<213> Homo sapiens

<400> 3228

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<211> 820

<212> DNA

<213> Homo sapiens

<400> 3229

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<211> 860

<212> DNA

<213> Homo sapiens

<400> 3230

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<210> 3231

<211> 886

<212> DNA

<213> Homo sapiens

<400> 3231

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<210> 3232

<211> 599

<212> DNA

<213> Homo sapiens

<400> 3232

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<211> 868

<212> DNA

<213> Homo sapiens

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<210> 3234

<211> 867

<212> DNA

<213> Homo sapiens

<400> 3234

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<210> 3235

<211> 839

<212> DNA

<213> Homo sapiens

<400> 3235

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ccaccgggcc ccagggcctt cgtaggagc ccagcaggct caacttcttg ctgtggttct	240
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gaaatgagac ggctccgagg gaagagcttg agggagcggc gtcgcactcg ttcgaccttc	360

ccgggcctgg gctttgtttc taggcatttt aggttgaacg ctctacatct taactgaggg 420
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<210> 3236

<211> 864

<212> DNA

<213> Homo sapiens

<400> 3236

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 cattaataag catttagaca gtggttatca cgccaagaga agaaggaaag ccttagaagt 780
 tctgtcaciaa aaggaaccgc tgcccaaaac tgnatataat ttgctctctg atcgtgattt 840

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864

<210> 3237

<211> 811

<212> DNA

<213> Homo sapiens

<400> 3237

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<210> 3238

<211> 857

<212> DNA

<213> Homo sapiens

<400> 3238

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 caagcagcac aaataaagct ttgagaaaa cttcaaaagc aggaacaggc tcgggttgct 780
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<210> 3239

<211> 864

<212> DNA

<213> Homo sapiens

<400> 3239

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 gggctgagca ccagaaaacc tgtggaggca cttacataaa aatcaaggaa ccagagaatt 780
 ctcaaaaaaa ngcaaaggaa aggcaaaact nggaaaggaa ccatattggc cgagagaat 840
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<210> 3240

<211> 559

<212> DNA

<213> Homo sapiens

<400> 3240

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 cggtgccagt ccagtggcg ccggccgttc cccaagagg gggcacggac acagccgggg 480
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<210> 3241

<211> 871

<212> DNA

<213> Homo sapiens

<400> 3241

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aacttccttc caaccgaagg ccctggcttg caaaacttgt ggtngggccc ttttactttt 840
ggaaaaaccc gcnaagggnc cttgggccaa g 871
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<210> 3242

<211> 811

<212> DNA

<213> Homo sapiens

<400> 3242

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tcaacgcctt ccagaaactt cagactcgac ggaacttctg gtctgtgact caccagcaa 180
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<210> 3243

<211> 806

<212> DNA

<213> Homo sapiens

<400> 3243

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cagggattct gcagccagat gcttagtnaa gaaatggatg cttgggtacc cgcctactca 780
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<210> 3244

<211> 796

<212> DNA

<213> Homo sapiens

<400> 3244

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<210> 3245

<211> 714

<212> DNA

<213> Homo sapiens

<400> 3245

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 gcatcgtttg taaagaaacg taagctcaag gtgtcacagg agccatttgt cttncgcgag 660
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<210> 3246

<211> 763

<212> DNA

<213> Homo sapiens

<400> 3246

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<210> 3247

<211> 861

<212> DNA

<213> Homo sapiens

<400> 3247

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<210> 3248

<211> 721

<212> DNA

<213> Homo sapiens

<400> 3248

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<210> 3249

<211> 841

<212> DNA

<213> Homo sapiens

<400> 3249

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<210> 3250

<211> 857

<212> DNA

<213> Homo sapiens

<400> 3250

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<210> 3251

<211> 754

<212> DNA

<213> Homo sapiens

<400> 3251

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 actttttgaa tctctccaca cagctgtctg gatttcatat ttgtattgac aaagggactt 360
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 tgtgagactt tttcttgac gaattcaggg agttgaccac atttggccat ttcccanaag 660
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<210> 3252

<211> 736

<212> DNA

<213> Homo sapiens

<400> 3252

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aactgtcgag aagtgattat tacaccaaatt tctgcatggg gtggagaang cancctagga 660
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<210> 3253

<211> 655

<212> DNA

<213> Homo sapiens

<400> 3253

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gctgtagaag aggggaggaa acaagccagt gcaaggggag caaaagagaa aaggagccag 60
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ggagcgccctg gaccagtatc ggcaggatgg agtcagggtg ggggtgaggg atcacgctat 540
ccctgaagga gccagatgca acaggtttag gaaaggcagc agacacgtnc cantctggaa 600
ccctggaagg agaagaattc ntacagttct ataaggcatt gactaaacgt gctga 655

<210> 3254

<211> 755

<212> DNA

<213> Homo sapiens

<400> 3254

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ggcancaggt ggtataggaa aattagaggg agangaccgt gatgtaaaat gcctgtcaga 720
aaaaagacac ctntgataca agcattgctt actcc 755

<210> 3255

<211> 834

<212> DNA

<213> Homo sapiens

<400> 3255

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gtcgacgccg ccgctcgtcc gtcctcccgt ccgttctcgc tcccggccgc catcatgtctg  180
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ctagaagaac tgaacatctt tgaatcttca gtccttcttg ctataatcta natattgccg  780
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<210> 3256

<211> 658

<212> DNA

<213> Homo sapiens

<400> 3256

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tcgttagtat ttaccactcc tccagtctgt gttttgaagc agtggttttc aaccactgcc  300
cgttttcaga agaaatcatc tcaagcgtcc gtgtgctgct agaagccggg ccgggaggtc  360
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ccttagagtg gagcaatgag tcgcccttga ctgagtaact cttcggggtc aacttctcct 480
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<210> 3257

<211> 710

<212> DNA

<213> Homo sapiens

<400> 3257

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 cagagagata aacaagcata catctccaga agaataataa cttaaatttat ttctgcaaga 180
 aaaaaaacac ataaacctga ctaaactcgg cttaaagtga caaaaacatc ctggaaatga 240
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 cataggaagg ctgtgtcttg cttttcttgg caagagatta gacagtgtta tagagatgtg 600
 tgtgaaggat gttctgttaa aagatgatct tagttgggca gaaacagggtg tggccctttt 660
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<210> 3258

<211> 826

<212> DNA

<213> Homo sapiens

<400> 3258

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cccagcaaac ctaggctatg ccaaaaggcg tagaatcccc caccatgtga acgcttngga 780
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<210> 3259

<211> 842

<212> DNA

<213> Homo sapiens

<400> 3259

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ttaggggaaa ticccttttc atattgtgtg ctcccaaag ctatagtcag agatttcttc 180
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agacatcaag aaatggagaa agactgaaag ttaatatctt aagtgttgt tcttcatgtt 480
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 ctaatctcag attggcagtt aaagtcaaaa tgttgccaaa tatttattcc ttttgcctaa 780
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<210> 3260

<211> 843

<212> DNA

<213> Homo sapiens

<400> 3260

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843

<210> 3261

<211> 761

<212> DNA

<213> Homo sapiens

<400> 3261

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acgagcacgg gggaagcgga gctgaangaa gaaccggctt gncaggcccc gaaaggcgaa 720
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<210> 3262

<211> 776

<212> DNA

<213> Homo sapiens

<400> 3262

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<210> 3263

<211> 768

<212> DNA

<213> Homo sapiens

<400> 3263

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<210> 3264

<211> 840

<212> DNA

<213> Homo sapiens

<400> 3264

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<210> 3265

<211> 846

<212> DNA

<213> Homo. sapiens

<400> 3265

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aggttataga tgaccaggag aacctagctc atagcaggag gaccagggaa gatagaaagg	180
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<210> 3266

<211> 872

<212> DNA

<213> Homo sapiens

<400> 3266

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atggtggtcc ctagagagtg cagctaggtg tggggaggaa gcagacttat ttactttat	180
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 ttctactgtt gaacagacct tctaccactt ttctactac ttcccctaata gataacatac 840
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<210> 3267

<211> 844

<212> DNA

<213> Homo sapiens

<400> 3267

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 agctgcagtg ttgacttact aaagaagaga cttgatggta tagaggaagt ggaaagagaa 180
 ataacaagag gaaggtcacg aaaagggtct gagctcacct gcccggaaga taataagatt 240
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 gaaggggatt tgatgaagac agaagatgag tatgatcagc tggaacagaa atttagaact 360
 gagcaggata aggctaactt cctctctcaa caactagagg agatcaagca ccaaattgcc 420
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 aagattcacg aattaatgaa caaagaagat cagctttctc agctccagggt agattattct 600
 gtacttcaac aaagatttat ggaagaagaa aataagaaca aaaacatggg gcangagggt 660
 ctcaatctga ccaaagagtt ggagctttcc aagcgctaca gcagagctct tagcccagtg 720

tgaatggaag aagaatggtg gatgttcctg tgacgtcaac tggagtccaa actgatgcag 780
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aaga 844

<210> 3268

<211> 726

<212> DNA

<213> Homo sapiens

<400> 3268

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aacaggaagc catgcggcga gccaccgtgg agcgggagat ggagctgcgg cacaagaatg 660
agatgctgcn agtggaagcc gaagcccggg cgcgcgccaa aggccaaacg ggagaatgcc 720
ngacnt 726

<210> 3269

<211> 704

<212> DNA

<213> Homo sapiens

<400> 3269

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agccctattg gatatttaca tcttgaactg tgaagacagc gaataaaggt atcaagggtc  180
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tcctcctctg caaccctgcc ctccctgcat ttacgagccc gtgcgtggca ctgcccgcac  600
cagctagcct gggcatcttc cctctgtgtg atccatttca gggcctgttg cttggncttt  660
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<210> 3270

<211> 741

<212> DNA

<213> Homo sapiens

<400> 3270

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gttaaaagag cccgnctctc cctcggccgg tcaactcttc gccacgggcg gnagttgcac   60
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ttgtctaccc cgggaccccc gccacggcgg gctcgggacc gcgcgccggg agctgcgggg  180
ccaccctccg ggcagatcgg taatagagcc ctccgtcttg gggagcgcac ccccgcggcc  240
gtggaaaagc gggggccata catggtgacg cgcgccacct ccattcaagc caagctgcgt  300
cagtgaagtt taacaagggc tatactgctc ttagccagag tccagatgaa aacctggtgt  360
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cagaggtgaa ccaggatgtg agccggcagc tgcttcagga tgggtatcac ctggatgaga  480
ttccagatga cnaggacttg gacctcatcc ccctaagcc catggcctct tcaacatgct  540

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cctgctgctg gtgctgtctt ggggactctt cttcctgtac ctttcagtag acattaccct 600
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cctggtgctt ctcaggccag a 741

<210> 3271

<211> 855

<212> DNA

<213> Homo sapiens

<400> 3271

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aggacactac taatctagtc ccttgcaactg ggtcagcctt tggacaggac ccagccctgc 180
accgttcact gtatttggag aaaatggtaa gagttccata ccggtacaa ttctttgagt 240
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cactgtaaaa ccaaactcta gggctaataa aaaaattcat ttgtatcttg caatatttat 540
gacgatcggt tagccttcac actggagaat tgacacttat ttggggtaga gataaaagt 600
cttttcaaag tagcaccagt tatctctagg ggtaatttgg ggaacttaaa atgacctttc 660
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ccaggcatgg gtcgataccg cgaggggttc aaatattctg aactaacctc tntcttctgc 780
aaaagggtca ttgcatact tacacacttg catggnntcc cctgcttcca tacatttctt 840
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<210> 3272

<211> 774

<212> DNA

<213> Homo sapiens

<400> 3272

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aagtgtggt gccctctgcc gctgctcccg tctctttggc tacgtcgtc agccggtcgg 60
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caagtacccg tccatcatag tcaactgcgt ggaagagaag ccaaacgaat gcaatggtgt 180
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ccagcagcgt tcaaggaggt tcagggcatc aaaagaagga atggaagcag cagtcgagaa 480
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agttatttta tctgatgcta gtgctctggt gaangagaac ataanatcat ggattcattt 720
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<210> 3273

<211> 728

<212> DNA

<213> Homo sapiens

<400> 3273

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ccagcaggcg ggcctggagc cctactttga ctcatcatc accattgggc actcgaggct 240
gaacaaggag aatgacaccc tgaaggcact actgaaagcc aatgtggaga agcccgtgaa 300

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gctggaggtg ttcaatatga agaccatgag ggtgcgcgag gtggaggtgg tgcccagcaa 360
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 caagtcagac tcctgccggg aggtgactgt aactcccaac gcagcctggg gtgganaggg 660
 caggtacttc gtggggttgg agggctgnan ggccaggtgg gttggggcct gacattgggc 720
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<210> 3274

<211> 834

<212> DNA

<213> Homo sapiens

<400> 3274

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 caaagtcatc gtccggtttc tctactgtgat gatgaagcat ggttacattg gcgaatttga 180
 aatcattgat gaccacagag ctgggaaaat tgttgtgaac ctacacaggca ggctaaacaa 240
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 ttgggtaagt tggcctttcc ttaattaaaa gaagttaatg ctaagaattt ctgtggtgca 480
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 angctgangc aggcggatca cctgagggtg ggagttcgag accaccctgc caacatggag 720
 aaccccgtgt ctacctaaaa tccaaaatta gccagcctgg tggcacacac ctgtgatccc 780
 aactacttga aagggttancg aggaaatact tgaccccgga aaaggtncgn gact 834

<210> 3275

<211> 780

<212> DNA

<213> Homo sapiens

<400> 3275

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ccaggaacat cagcaaagag aaccaaagaa aaaatgtctg tcaaaggcag taaagtgtc  180
tgccctaaga aaaaggcaga gcacactgac aaccccagac ctcagaagaa gataccaatc  240
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cccaagangc ctttggtgtc aagtgggtgt tggtccatgg gaaaagtctn ccttgcagac  720
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<210> 3276

<211> 790

<212> DNA

<213> Homo sapiens

<400> 3276

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agtaaaggcc ggaccagaat atggccaagg gatgaaccct attagccgcc tggcgcaaat 180
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 tacagcttga agccataggt ttaaaaggaa gttctnctac ttnccttgg tcttcagtac 720
 aacctttaa acaactggaa tatttagcaa ggattcaagg ctttcaggtg tgaattaaaa 780
 gcaaaaaccn 790

<210> 3277

<211> 638

<212> DNA

<213> Homo sapiens

<400> 3277

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 taaagctatg cacatatctg gctcagacct ctttctcagt gcaagttaca tctataacca 540
 ttattgtgac tgcaaagacc aacattatta ctttcttggg gataaaatca atgatgtgat 600

ctgnctttca atggaaagaa tatntcgtat nacacctg

638

<210> 3278

<211> 703

<212> DNA

<213> Homo sapiens

<400> 3278

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 aaatctatga ttactgcag tagtatgtgc ttaaaacaac tgttgaggtc ttttaagcag 180
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 aaaaactgat tatgtataaa tactgatatt tcacatacgg agatatttga agacccaagt 420
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 gaatttgcatt ttgttacatt acattgccag cgcatatcat ttagcaagtt ggcattaaca 600
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<210> 3279

<211> 752

<212> DNA

<213> Homo sapiens

<400> 3279

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cttcgttgct cgcacagctc cctgcccagg ctaggaggcc ggcttgcggg gttgagtggc 180
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<210> 3280

<211> 791

<212> DNA

<213> Homo sapiens

<400> 3280

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<210> 3281

<211> 897

<212> DNA

<213> Homo sapiens

<400> 3281

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 caccgacgac gtgtttgcct gctttgccac tcccgccgtc tcgtggcgcc tcctgtctgt 180
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 ctacacagac acagtcgacc tgccgccaga agatgctata ggtcttctgg atttggcgac 480
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 ngatgtgtcc agtttggctc tacggtgatg tgattcttgc aggtaaaaga ccattaggtg 840
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<210> 3282

<211> 777

<212> DNA

<213> Homo sapiens

<400> 3282

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<210> 3283

<211> 800

<212> DNA

<213> Homo sapiens

<400> 3283

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aaccctgagc acatggaaat gcagcagaac attgagaatt acagggcgac agctggtgtt  180
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gaagaatatg agtatttagg gtataaggct ggtctgtatg aagctattgc agatcactac 420
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<210> 3284

<211> 831

<212> DNA

<213> Homo sapiens

<400> 3284

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<210> 3285

<211> 901

<212> DNA

<213> Homo sapiens

<400> 3285

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gatgatcaga ccagaaaatt ttggagcagg tcctcaacan ggtaggtacc agacatcttc    840
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<210> 3286

<211> 800

<212> DNA

<213> Homo sapiens

<400> 3286

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aggtcagacc gggaagctga tgtatgtgat gcacaactca nagtaccat tgagctgttt	300
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cttnaacaag atccgcaagc agcaacaggt gccggtggct gggattcgtt agtgatgaac	720
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<210> 3287

<211> 896

<212> DNA

<213> Homo sapiens

<400> 3287

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agattcaggt ggacaaagga caagtataa aatccaagaa tatccacagc tcagagaaga	180
aacgatctag ccctgctatt tcagatcttt cacagatcct taagtctcaa gatgaatcag	240
catttttaga gagttcaaat gaagtttcag ttgctgaaaa ccaatcctat aaatctccat	300
cagagaccca tgataaatca cttaaacag tatcatccag caaagaagtt caagattcac	360
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<210> 3288

<211> 919

<212> DNA

<213> Homo sapiens

<400> 3288

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<210> 3289

<211> 849

<212> DNA

<213> Homo sapiens

<400> 3289

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<210> 3290

<211> 704

<212> DNA

<213> Homo sapiens

<400> 3290

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<210> 3291

<211> 792

<212> DNA

<213> Homo sapiens

<400> 3291

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<210> 3292

<211> 859

<212> DNA

<213> Homo sapiens

<400> 3292

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<210> 3293

<211> 710

<212> DNA

<213> Homo sapiens

<400> 3293

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<210> 3294

<211> 870

<212> DNA

<213> Homo sapiens

<400> 3294

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<210> 3295

<211> 845

<212> DNA

<213> Homo sapiens

<400> 3295

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<210> 3296

<211> 858

<212> DNA

<213> Homo sapiens

<400> 3296

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<210> 3297

<211> 887

<212> DNA

<213> Homo sapiens

<400> 3297

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<210> 3298

<211> 799

<212> DNA

<213> Homo sapiens

<400> 3298

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分 冊
S e p a r a t e V o l u m e

出願番号 平成 1 1 年特許願第 2 4 8 0 3 6 号
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<211> 849

<212> DNA

<213> Homo sapiens

<400> 3299

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<210> 3300

<211> 802

<212> DNA

<213> Homo sapiens

<400> 3300

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<210> 3301

<211> 893

<212> DNA

<213> Homo sapiens

<400> 3301

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<210> 3302

<211> 813

<212> DNA

<213> Homo sapiens

<400> 3302

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<210> 3303

<211> 774

<212> DNA

<213> Homo sapiens

<400> 3303

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<210> 3304

<211> 765

<212> DNA

<213> Homo sapiens

<400> 3304

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<210> 3305

<211> 884

<212> DNA

<213> Homo sapiens

<400> 3305

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<210> 3306

<211> 708

<212> DNA

<213> Homo sapiens

<400> 3306

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<210> 3307

<211> 844

<212> DNA

<213> Homo sapiens

<400> 3307

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<210> 3308

<211> 697

<212> DNA

<213> Homo sapiens

<400> 3308

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gaggaagctg taccgagatg tgatgctgga gaacttcagg aacctgctct tagtancaca  180
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<210> 3309

<211> 770

<212> DNA

<213> Homo sapiens

<400> 3309

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<211> 865

<212> DNA

<213> Homo sapiens

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<211> 756

<212> DNA

<213> Homo sapiens

<400> 3311

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<210> 3312

<211> 916

<212> DNA

<213> Homo sapiens

<400> 3312

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<211> 809

<212> DNA

<213> Homo sapiens

<400> 3313

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<210> 3314

<211> 863

<212> DNA

<213> Homo sapiens

<400> 3314

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 ctttaattaat tttaaattag cttgctcaga aaggatcatgc catacagncc tatcataaaa 660
 ggaacactat aagaattaag caatgaacag catgatttct gatccccagt gaggactgac 720
 agngtataaa agatacangt atgctactgg atgtaccga taattgtttg agagtttcta 780
 gtgaaaaact caaatattgc tagcttaacc acagtagtag ggggcaacct tattatatgg 840
 gagagcttca aaacatactg tcc 863

<210> 3315

<211> 786

<212> DNA

<213> Homo sapiens

<400> 3315

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gtatTTTTTc agtaagcacc cagaggcctc cattcaggct gtttttttca gatgcccaaa   60
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gatttggagt tgtccagacg acactaccag ctatccttaa tactttgttg acactgcaag  180
aggcagtcga caagtacttt aagcttcctc atgcttcag taaaccaccc cggatttcag  240
gaagccttgt ggacatttca tataaaacat taagatttgc attcagagca tcaactgaaaa  300
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tttctgtacc gattgctttt tgtgtgtgtg gtataataaa atctttattc aattttacag  660
aagcattgat ggcagtcgaa atgtctctag ctcatataac ttaataggna ataactaaaa  720
aacttttaga atttactttt gaaangangg gaacccgttc tgaaatgagt atagggtgat  780
tcatag                                           786
    
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<210> 3316

<211> 662

<212> DNA

<213> Homo sapiens

<400> 3316

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gcactgtgct gcctgtggcc accatccaga acgccagtac tgccatgctg atggcagcca   60
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ctgagaacgt gctaggcctg gtgccccaaag ccctgcctaa ggctgacggg cgggcagggc 180
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 tgctcctgca tgcacgtgaa cacaatgaca aggggctcgn catgcagtgc tcacatttgg 600
 tcatgaggct gtacccttga ccagatggtg ggggcancnc ggacattaca ccgatgctgc 660
 ct 662

<210> 3317

<211> 824

<212> DNA

<213> Homo sapiens

<400> 3317

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 agtatgtcc attcaaatga ccatacacta tcatttattg cacatcaacc aatggatgct 180
 atctgcgcag ttgagatctc cagtaaagaa tatctgctgt gttttaacag cattgggata 240
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 aatccaacta attttaatca catagcacac atgggtcctg gagatggaat acagatcctg 720

aaagatctgc ccatgaaccc tcggcctcag gaaagtcgga cagtattcaa tggctcaagt 780
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<210> 3318

<211> 725

<212> DNA

<213> Homo sapiens

<400> 3318

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cggctgcgcg tccgacgagt cgcagagcag gaccgcggaa ggcagggaga cggccgcaag 240
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gagaccagga gtgtcggagg ctgcctctgg aagccaggag aactggactt caaccgaaat 660
ttgaaagaag tggtnccagc cattgagaan ctgtttgtcc antgacttgg aaaggagaag 720
gttct 725

<210> 3319

<211> 864

<212> DNA

<213> Homo sapiens

<400> 3319

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 tcagcctgcc agccaagctc atcaatggcg gcatcgccgg gctgatcggt gtcacctgcg 180
 tgtttcccat cgacctggcc aagaccaggc tgcagaacca gcagaacggc cagcgcgtgt 240
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 ctcgcccccac ggnccaccag ctgaccgcg acctgctgcg gagccgtggc attgccggtc 660
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 ctttgcaact gaaccagtgg gccgnccggc gtncgaagag aatcgcttct acgtgtcttc 780
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<210> 3320

<211> 840

<212> DNA

<213> Homo sapiens

<400> 3320

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 ctggagctac aagaccacgg atgacatcgt gaaggttgaa gtctgggatg tagtagacaa 180
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 gcgttcttac ttgcacctgc ctgcttcttg ggtnggcaag aagggtacag gggctcctga 780
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<210> 3321

<211> 776

<212> DNA

<213> Homo sapiens

<400> 3321

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 cgaaatgttt taactgccat tccaagtga cttttctcct cttttgttaa ctgcctcaca 120
 cacctcactt gttcttttgg gcgaagtgct gcattggaag aagtgcctga taaagatgac 180
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 gacaaacatt tccataaagg cttttttacc caacatgcag ttcaagtttt caattcctat 300
 attcagtgcc acctagctgc tccagatggc acaagaaatt tgactgcaa tgggtgtggc 360
 tctcgtgagg aggaagaaat aagtgaactt caagaggatg atcgagacca gttttctgat 420
 caactggcca gtgtaggaat gctaggaaga attgctgcag aacactgtat acctcttctg 480
 acaagtttat tagaagaaag agtaacaaga ctccatggc agtcacaacg acatcagcaa 540
 cagttacttg cttcacggg ttcaagcact gttgacaaca aaatgcttga tgatctctat 600
 gaagatattc actggcttat tttagttaca ggctacctct tagctgatga tactcaggga 660
 gagactccgc taatacctnc agaaataatg gaatattcca ttaagcattc atctgaagtt 720
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<210> 3322

<211> 697

<212> DNA

<213> Homo sapiens

<400> 3322

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agcgggaggg aagtgtagt acgggtgggg agaaccacac taaagggaga tgggggtgag 180
cagttaagga accgcgagag cgccaggtag agagctgccc ttaatggggg aacctggaga 240
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ggctctgagg cctggttgta gcggccactg ccgcggattg ctgttgcgga cccggggcgg 660
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<210> 3323

<211> 760

<212> DNA

<213> Homo sapiens

<400> 3323

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ccaccatgag ctacacaggc ttgtccagg gatctgaaac cactttgcag tcgacatact 120
cggataccag cgctcagccc acctgtgatt atggatatgg aacttggaa tctgggacaa 180
atagaggcta cgagggctat ggctatggct atggctatgg ccaggataac accaccaact 240
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aactagtgc ctcgggtagc gccagtgccg attccgtttt atccagaatt aaccagcgt 360
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 gccaatacga tgcctaccgc gaccagttcc gcatgcgtgg caacgacacc ttcgggtccca 600
 gggcacaggg ctgggcccgg gatgcccgga gcggccggcc aatggcctca gctatgggcg 660
 catgtgggaa gaccccatgg gggcccgggg ccagtgcagc tctggtgcct ntcggctgcc 720
 ttcctttttt ccagaacatn atncccagat accggatgtt 760

<210> 3324

<211> 790

<212> DNA

<213> Homo sapiens

<400> 3324

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 tattggaagc cttgtatgat ggtagcctag gagactgtaa agaagctgct gaaatttata 180
 gagcaaattg tcataagctt ttccttatg ctttggcttt catgcctcct ggatatgaag 240
 aggatatgaa gatcacagtt aatggagata gttctgcaga agctgaagaa ctggccaatg 300
 aaatttgaac atcactaaac aagcaaattg aatgactttg gaccatatct agtatataat 360
 atttttgtca cgcacctgct gcattgctct aacttacaca gaatgagagg agtaaatgtt 420
 cttgccttca aatagtgttt tacgtttttt atcctgctga aaaagtatat ataaaatatc 480
 taacattaca ggatagaggt tcagtttctt aaaaaattaa agctgctaaa attgagtggc 540
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 aaaatctgga ggctgttaca gctaacaaag caggtgtgtg gcagaaatat tactttaaat 660
 ttgtcttgtg agattttact atatctcaga cagcataaat gctggtttag cactggattc 720
 tttcactgag cacaaagagt tgntggggct ttagcatctg actggatttg gtacngggnt 780
 gattcttacc 790

<210> 3325

<211> 797

<212> DNA

<213> Homo sapiens

<400> 3325

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gagagtttga gtaaagggtg aaacataatg gaacagaatt ttgagccgat tcgaagacag  180
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aaccaaggaa agaaaataca gagaccctag aagtggatcc aaatagaagg gacaagtgct  660
ttcagtgaag aaaagggaat tacacattga atcgacacat cagtaatacg atacagtga  720
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atntcntntt ataaatg                                     797

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<210> 3326

<211> 822

<212> DNA

<213> Homo sapiens

<400> 3326

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<210> 3327

<211> 660

<212> DNA

<213> Homo sapiens

<400> 3327

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aggaggtgga acccacaaaa tccattgct ttccacactg canggctgcc cgttatttcc 600
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<210> 3328

<211> 805

<212> DNA

<213> Homo sapiens

<400> 3328

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<210> 3329

<211> 793

<212> DNA

<213> Homo sapiens

<400> 3329

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atgatgcaat cttggcttnc agtgctcgtc aacttttaca acagctggca catnctatcc 780
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<210> 3330

<211> 706

<212> DNA

<213> Homo sapiens

<400> 3330

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aggctctgta tgctctacca tccagacaag cacagagacc cagagctcaa gtcacaggcg 180
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<210> 3331

<211> 814

<212> DNA

<213> Homo sapiens

<400> 3331

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<210> 3332

<211> 794

<212> DNA

<213> Homo sapiens

<400> 3332

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tgcacatgaa gcatttagaa gcatgtctgg tatgtantgg gtgcttaata aattccagct  720
atcttaattt attatagnta tggattattc ctgtggatag ncattctagg ataaagggga  780
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<210> 3333

<211> 875

<212> DNA

<213> Homo sapiens

<400> 3333

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ttggacaaca ctttaattac agcctgaagg ttaggtagtt gttattccat ttatatatct 300
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<210> 3334

<211> 747

<212> DNA

<213> Homo sapiens

<400> 3334

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gggnaacgga ttcggttac anctggg 747

<210> 3335

<211> 774

<212> DNA

<213> Homo sapiens

<400> 3335

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cacgcacctc atggaggaga acatgatcgt gtattgtgga aaagaaaagt gctngaagac 660
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<210> 3336

<211> 669

<212> DNA

<213> Homo sapiens

<400> 3336

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<210> 3337

<211> 769

<212> DNA

<213> Homo sapiens

<400> 3337

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gaccctttgg gaaagacgaa gacacttctc atgcaaaaat cgcactctgat atcatgagtt 660
gcattttaca gaattacaac cgacccccag tgatggcatt agccattccc attgcagtga 720
aaattcttca cagaggcaac aaggnactgt gcnggaatat gnctaacta 769

<210> 3338

<211> 677

<212> DNA

<213> Homo sapiens

<400> 3338

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ctaaatcctc ccaccgnttg ccggacctta cacttaccaa gatccgcttg aaagcgcatt 660
cttcttgggc nggagnt 677

<210> 3339

<211> 717

<212> DNA

<213> Homo sapiens

<400> 3339

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 ggagcgttac atgaaggaac tggaacagta tcagaaaaca gaggcctaca aggtcttcaa 660
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<210> 3340

<211> 908

<212> DNA

<213> Homo sapiens

<400> 3340

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 gcacatcadc gacactggcc tggagtattg aagggtggtat caggatgcca catatcctta 180
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<210> 3341

<211> 768

<212> DNA

<213> Homo sapiens

<400> 3341

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 agccatggca gcgctgcgct acgcggggct ggacgacacg gacagtgagg acgagctgcc 180
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 aatgaccctg gacctngctc tgnttccgta gcgtgcagca ttttgcttga agcctttcaa 720
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<210> 3342

<211> 810

<212> DNA

<213> Homo sapiens

<400> 3342

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<210> 3343

<211> 756

<212> DNA

<213> Homo sapiens

<400> 3343

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aagaagaaaa aagaaggggc atggctggag cagaacggga acgagaacgc agaaaaacaa 180
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<210> 3344

<211> 741

<212> DNA

<213> Homo sapiens

<400> 3344

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<210> 3345

<211> 718

<212> DNA

<213> Homo sapiens

<400> 3345

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<210> 3346

<211> 813

<212> DNA

<213> Homo sapiens

<400> 3346

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<210> 3347

<211> 703

<212> DNA

<213> Homo sapiens

<400> 3347

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703

<210> 3348

<211> 755

<212> DNA

<213> Homo sapiens

<400> 3348

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<210> 3349

<211> 746

<212> DNA

<213> Homo sapiens

<400> 3349

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<210> 3350

<211> 741

<212> DNA

<213> Homo sapiens

<400> 3350

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<210> 3351

<211> 708

<212> DNA

<213> Homo sapiens

<400> 3351

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<210> 3352

<211> 832

<212> DNA

<213> Homo sapiens

<400> 3352

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<210> 3353

<211> 831

<212> DNA

<213> Homo sapiens

<400> 3353

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<210> 3354

<211> 578

<212> DNA

<213> Homo sapiens

<400> 3354

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<210> 3355

<211> 760

<212> DNA

<213> Homo sapiens

<400> 3355

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gacaaccgct ttgacttcct cctcctcgtc tgctgcgcca tgctcatgct gatccgggag 720
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<210> 3356

<211> 824

<212> DNA

<213> Homo sapiens

<400> 3356

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<210> 3357

<211> 838

<212> DNA

<213> Homo sapiens

<400> 3357

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<210> 3358

<211> 812

<212> DNA

<213> Homo sapiens

<400> 3358

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<210> 3359

<211> 878

<212> DNA

<213> Homo sapiens

<400> 3359

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<210> 3360

<211> 797

<212> DNA

<213> Homo sapiens

<400> 3360

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<210> 3361

<211> 813

<212> DNA

<213> Homo sapiens

<400> 3361

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<210> 3362

<211> 876

<212> DNA

<213> Homo sapiens

<400> 3362

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<210> 3363

<211> 906

<212> DNA

<213> Homo sapiens

<400> 3363

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<210> 3364

<211> 729

<212> DNA

<213> Homo sapiens

<400> 3364

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<210> 3365

<211> 841

<212> DNA

<213> Homo sapiens

<400> 3365

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<210> 3366

<211> 867

<212> DNA

<213> Homo sapiens

<400> 3366

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<210> 3367

<211> 846

<212> DNA

<213> Homo sapiens

<400> 3367

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<210> 3368

<211> 861

<212> DNA

<213> Homo sapiens

<400> 3368

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<210> 3369

<211> 854

<212> DNA

<213> Homo sapiens

<400> 3369

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<210> 3370

<211> 813

<212> DNA

<213> Homo sapiens

<400> 3370

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<210> 3371

<211> 713

<212> DNA

<213> Homo sapiens

<400> 3371

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<210> 3372

<211> 902

<212> DNA

<213> Homo sapiens

<400> 3372

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cn 902

<210> 3373

<211> 862

<212> DNA

<213> Homo sapiens

<400> 3373

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<210> 3374

<211> 749

<212> DNA

<213> Homo sapiens

<400> 3374

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<210> 3375

<211> 650

<212> DNA

<213> Homo sapiens

<400> 3375

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<210> 3376

<211> 707

<212> DNA

<213> Homo sapiens

<400> 3376

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<210> 3377

<211> 773

<212> DNA

<213> Homo sapiens

<400> 3377

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<210> 3378

<211> 708

<212> DNA

<213> Homo sapiens

<400> 3378

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<210> 3379

<211> 710

<212> DNA

<213> Homo sapiens

<400> 3379

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 gaagcgctg gcgccactgc caaccgncgg gtctactgct ccctgctgga gaccgggggc 660
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<210> 3380

<211> 758

<212> DNA

<213> Homo sapiens

<400> 3380

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<210> 3381

<211> 719

<212> DNA

<213> Homo sapiens

<400> 3381

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tggcatcgaa attaaaggaa tctgtgaaag agaaagagaa ggtccattca gaggttgtcc 420
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aatccaaaga gcaagaagta aatgaacttc tgcaaaaatt ccagcaagct cangaagaac 540
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 agataaatga gatgtcgaag gaagtcacca aattgaanga ggccttgaac agcctcttcc 660
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<210> 3382

<211> 773

<212> DNA

<213> Homo sapiens

<400> 3382

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 ccacatctct gccccctcag ctgctgccag cacacctgtg cccagtgcc ccacgaccc 180
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 tcagcagggc aacatcgcca tgacaaccgt caacttaciaa gttgtgtcan gtggagcctt 720
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<210> 3383

<211> 814

<212> DNA

<213> Homo sapiens

<400> 3383

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ggggcggaga gaggcgagca ccgggaaggg gagcgtgggg ccgctggaat gggatgaattt   60
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aataaccagt caaacagatt ggctgtttca cgaacagatg gcactgtgga aatttataac  180
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gctttgtgct gggcagaagg acagcgactc tttagtgtcg ggctcaatgg cgagattatg  300
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gacaggcagt atatgggcgt gtctaagcgg aagtgcacg tgtgggggtgt cgccttcttg  660
tccgatggca ctatcataag tgtggactct gctgggaagg tgcagttctg ggactcaacc  720
actgggaccc ttgtgaagag ccattctatc gnttatgctg acgtgcagtc cattgctgta  780
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<210> 3384

<211> 773

<212> DNA

<213> Homo sapiens

<400> 3384

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ggcctccagc ttccagccct cctcccctaa gccgccgcca tcatgctgct gcctgtgttc  180
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 gccttgcgtg actttgatgg tgatggaaaa gaaagagctt cttgntggat ctgangattt 720
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<210> 3385

<211> 754

<212> DNA

<213> Homo sapiens

<400> 3385

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 gactggttgt gcctctctac tgtcgggcag cccacctct gtgctgcccc atccacctac 180
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 ttccagccct tgcttaggat ccacctacct aggtctggaa atcgtatttc acttcagatg 660
 ccttctcaga ggataaaata acccccgggtg ggggagagta ctggaagang gctaattccc 720
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<210> 3386

<211> 884

<212> DNA

<213> Homo sapiens

<400> 3386

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gcaattgttg atagtagatc agctcagccc aaagaaacct cggaagagag aaaagctcgt 180
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agtaaacttc atagaaattt gctatttcaa gattgtgaaa aagagcagga caacaaacca 780
aaggatccac ccatgatgtt aaacccccaa tncagaaacn aggacaagtt gcttaaatta 840
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<210> 3387

<211> 817

<212> DNA

<213> Homo sapiens

<400> 3387

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ttgctctggtt atttttccac ctagaagaat agtaaaaagg aagtgctagc tgtggtttgg 180
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 cagagagaaa taaatgagtt gaatatcttt caagactaac attttctgaa actttaagaa 720
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<210> 3388

<211> 813

<212> DNA

<213> Homo sapiens

<400> 3388

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gcctgggcaa ccantgaga cccgtatct acaaaaatta gccagggtgtt gtgacatgtg 780
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<210> 3389

<211> 768

<212> DNA

<213> Homo sapiens

<400> 3389

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<210> 3390

<211> 871

<212> DNA

<213> Homo sapiens

<400> 3390

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<210> 3391

<211> 890

<212> DNA

<213> Homo sapiens

<400> 3391

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 ggactgctag aatttcataa aagcttacag gaaattggag acaaaaatga ccattggttg 840
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<210> 3392

<211> 723

<212> DNA

<213> Homo sapiens

<400> 3392

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gaa

723

<210> 3393

<211> 807

<212> DNA

<213> Homo sapiens

<400> 3393

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aagaaagtct tgagcattcc aaagagacat acagacactt catcctacag gtggnaaccc 780
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<210> 3394

<211> 778

<212> DNA

<213> Homo sapiens

<400> 3394

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<210> 3395

<211> 804

<212> DNA

<213> Homo sapiens

<400> 3395

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 ttctcttttt aggaatacca aagttttcaa ctttttcagc tttagaattt gtaaataattt 660
 ttgtagaata tcatatgact gtaattncag agtgttccaa cttggttatg atatatttgg 720
 gtaaatttac aactgntctt ttatttgcca taatctgggt ataacactgg ttgtggnagg 780
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<210> 3396

<211> 646

<212> DNA

<213> Homo sapiens

<400> 3396

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 gnetgggctc cagactgggc gcgaccacta acccggttaa tgacctcggg cttacttaa 540
 ccccttcgt gctctgggcc tgcgtttctc caccggtgaa atnagggtct tcatcaccca 600
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<210> 3397

<211> 802

<212> DNA

<213> Homo sapiens

<400> 3397

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<210> 3398

<211> 733

<212> DNA

<213> Homo sapiens

<400> 3398

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cctatcgacc cctctgctcc tgctgcctt gagcccggcc ataaggcat ggattaccgg 180
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<210> 3399

<211> 716

<212> DNA

<213> Homo sapiens

<400> 3399

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 gcccgcggat cgccctccgcc cggctcttcgc cggccccggc ccctggcgag atgccgtgtg 180
 gggaggattg gctcagccac ccgctgggaa tcgtgcaggg attcttcgcc caaaatggag 240
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<210> 3400

<211> 711

<212> DNA

<213> Homo sapiens

<400> 3400

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<210> 3401

<211> 846

<212> DNA

<213> Homo sapiens

<400> 3401

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cgctgctccg tggccgtggt ggagctgccc cggcgccccg cgccccggc agccgtgctc 480
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<210> 3402

<211> 857

<212> DNA

<213> Homo sapiens

<400> 3402

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 tgatactgag gctgcagctt cccaccgca tctgccccca gaggaggggg tggcagagga 420
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 gctcgccagc aggttttgat gccngtgtga gctcaagcag tagtaatcag ccngaccaga 840

cattctgnaa aagctgt

857

<210> 3403

<211> 808

<212> DNA

<213> Homo sapiens

<400> 3403

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tatattgggg ggtggccctt gtcagaatga aaaatggaaa actcatgctt cagagatagg 780
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<210> 3404

<211> 874

<212> DNA

<213> Homo sapiens

<400> 3404

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 aaaaaaaccc ctgcatcng gaagccagga gaagagcatg atcgaggtgc aaactctgat 780
 cacatatatt gacttgaagg aggccttgag aaaaagnaaa gcttgtttgc ttgtgangag 840
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<210> 3405

<211> 887

<212> DNA

<213> Homo sapiens

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 gggagaactg ctaacagttt tgctcaccct ggatgaaatt attgataatc atatcacact 360
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atttggaatt caggaagaaa cattaaagcc atttgaaaag ttcttgctga agctagaagg 480
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<210> 3406

<211> 860

<212> DNA

<213> Homo sapiens

<400> 3406

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aactnctgaa attgctttgg

860

<210> 3407

<211> 895

<212> DNA

<213> Homo sapiens

<400> 3407

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ccaccaaggg aagtttggtt ggcttaattg gattatncag atgatgaana ggaagatgaa  840
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<210> 3408

<211> 842

<212> DNA

<213> Homo sapiens

<400> 3408

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<210> 3409

<211> 848

<212> DNA

<213> Homo sapiens

<400> 3409

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 aacgatgagt acaaactggg tgatcccaga agaattaatg gtccagtatt ttaaaaagtt 780
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<210> 3410

<211> 902

<212> DNA

<213> Homo sapiens

<400> 3410

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agcagtgtta tacagaaggg caatgaaaac attggacatg accatgagtg cttcctttcc 840
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<210> 3411

<211> 760

<212> DNA

<213> Homo sapiens

<400> 3411

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<210> 3412

<211> 748

<212> DNA

<213> Homo sapiens

<400> 3412

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 ctactaagag aagccactgc tccaccggga gccagaccag aaactcaaga gatagggtag 660
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<210> 3413

<211> 756

<212> DNA

<213> Homo sapiens

<400> 3413

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<210> 3414

<211> 779

<212> DNA

<213> Homo sapiens

<400> 3414

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<210> 3415

<211> 863

<212> DNA

<213> Homo sapiens

<400> 3415

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<210> 3416

<211> 884

<212> DNA

<213> Homo sapiens

<400> 3416

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gaaaaaatag aggatgcttt attatgggaa tgcccagtgg gagatatact tcccaattca 300
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<210> 3417

<211> 906

<212> DNA

<213> Homo sapiens

<400> 3417

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<210> 3418

<211> 795

<212> DNA

<213> Homo sapiens

<400> 3418

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<210> 3419

<211> 807

<212> DNA

<213> Homo sapiens

<400> 3419

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<210> 3420

<211> 817

<212> DNA

<213> Homo sapiens

<400> 3420

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<210> 3421

<211> 802

<212> DNA

<213> Homo sapiens

<400> 3421

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gcttgttcgg gtggccccct tn 802

<210> 3422

<211> 726

<212> DNA

<213> Homo sapiens

<400> 3422

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<210> 3423

<211> 779

<212> DNA

<213> Homo sapiens

<400> 3423

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<210> 3424

<211> 813

<212> DNA

<213> Homo sapiens

<400> 3424

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<210> 3425

<211> 906

<212> DNA

<213> Homo sapiens

<400> 3425

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<210> 3426

<211> 884

<212> DNA

<213> Homo sapiens

<400> 3426

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<210> 3427

<211> 697

<212> DNA

<213> Homo sapiens

<400> 3427

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<210> 3428

<211> 898

<212> DNA

<213> Homo sapiens

<400> 3428

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<210> 3429

<211> 769

<212> DNA

<213> Homo sapiens

<400> 3429

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 agtataagag agaaatagaa gagcaacttn gggcagaaat gtgtcaaaag ttgaagtttt 720
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<210> 3430

<211> 911

<212> DNA

<213> Homo sapiens

<400> 3430

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<210> 3431

<211> 889

<212> DNA

<213> Homo sapiens

<400> 3431

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<210> 3432

<211> 818

<212> DNA

<213> Homo sapiens

<400> 3432

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<210> 3433

<211> 808

<212> DNA

<213> Homo sapiens

<400> 3433

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 aattttaatc taaaaacaca gagcatcctc ttcaaccgt cataaagaag atttacagcc 660
 ttataaatat gcaggatacc ccatgcttat tcggactata acaatggaaa cttcagatga 720
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<210> 3434

<211> 832

<212> DNA

<213> Homo sapiens

<400> 3434

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<210> 3435

<211> 848

<212> DNA

<213> Homo sapiens

<400> 3435

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<210> 3436

<211> 880

<212> DNA

<213> Homo sapiens

<400> 3436

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<210> 3437

<211> 775

<212> DNA

<213> Homo sapiens

<400> 3437

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<210> 3438

<211> 831

<212> DNA

<213> Homo sapiens

<400> 3438